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Petroleum Supply Monthly



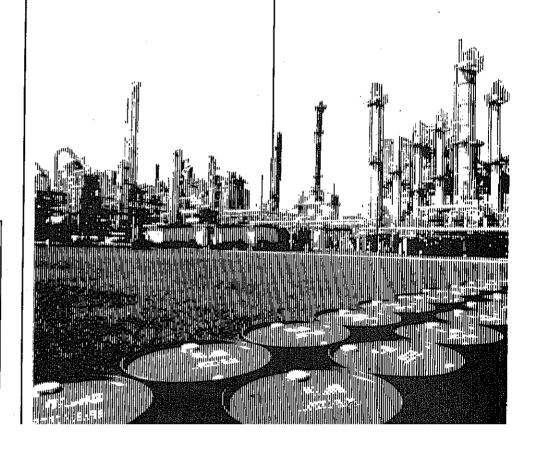
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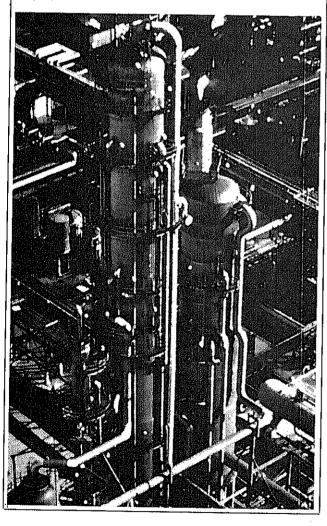
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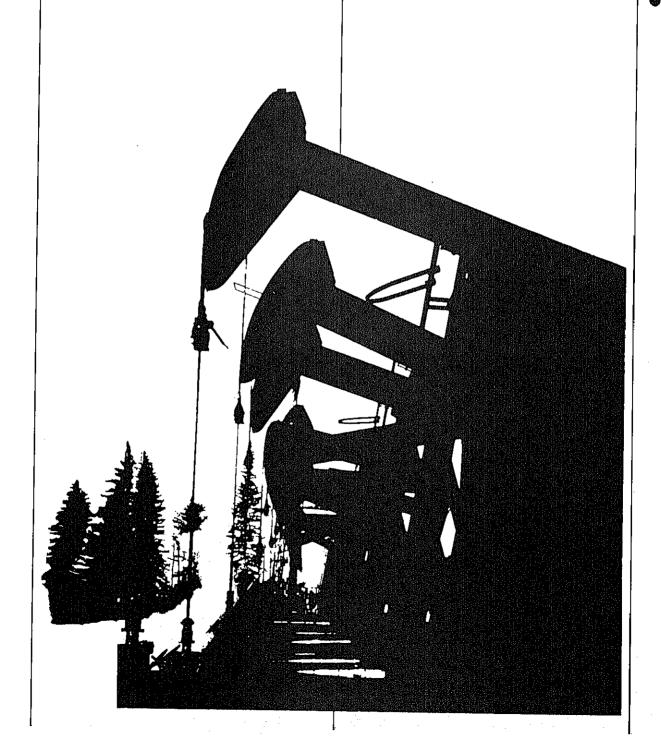
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Petroleum Supply Summary

		Ju	ıly	C	umulative Jan Through Jul	
age Volume for Period ion Barrels Per Day)	1984	1983	% Change	1984	1983	% Change
lucts Supplied						
Votor Gasoline	7.1	6.8	4.8	6.7	6 .5	2.2
Distillate Fuel Oil	2.6	2.3	13.5	2.9	2.6	11.9
Residual Fuel Oil	1.0	1.3	- 19.7	1.5	1.4	0.5
Other Products	4.6	4.7	– 1. 7	4.7	4.3	7.9
Total	15.3	15.0	1.9	15.7	14.9	5.4
le Inputs to Refineries	12.2	12.4	- 1.2	12.0	11.5	4.5
uction						
rude Oll, Natural Gas						
.iquids, and Other¹	10.4	10.2	1.9	10.4	10.3	0.9
orts						
Frude Oil ²	3.3	3.6	- 8. 0	3.2	2.8	12.2
₽R	0.3	0.3	12.4	0.2	0.2	- 7.1
roducts	1.4	1.9	- 23.9	2.0	1.6	23.7
Total	5.0	5.7	- 12.2	5.4	4.7	15.2
erts						
rude Oil	0.2	0.1	53.1	0.2	0.2	16.9
roducts	0.6	0.4	50.7	0.5	0.6	- 15.5
Total	0.9	0.6	51.3	0.7	0.8	- 15,5 - 8,6
k Withdrawal						
rude Oll²	0.1	0.5		(0)	0.4	
roducts	0.1	- 0.9	_	(s) (s)	0.1 0.3	_
ks at End of Period				, y - /		
on Barrels)						
e Oil PR	400	044				
	423	341	2 <u>4.1</u>			
ther Table	353	335	5.5			
Total	776	676	14.9			
ucts						
iotor Gasoline ³	236	231	2.2			
Istillate Fuel Oil	125	131	– 4.1			
esidual Fuel Oil	47	52	- 9.4			
ther	328	338	- 2.7			
Total	736	751	– 1.9			
Crude Oil and Products	1,512	1,426	6.0			

sludes alcohol and other hydrocarbon liquids, cludes Strategic Petroleum Reserve (SPR).

sluding blending components.

Less than 0.05 million barrels per day.

E: Percent changes are based on unrounded values. July 1984 data are estimates based on weekly data, except kports, NGL production, other hydrocarbons, and alcohol which are June 1984 monthly values. Totals may not just to sum of components due to independent rounding.

ce: Energy Information Administration, Petroleum Supply Monthly, June 1984.

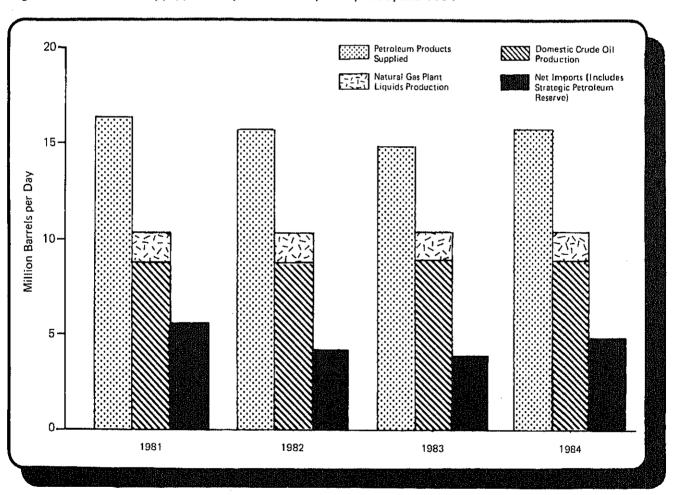
Mid-Year Petroleum Review

Petroleum consumption in the United States during the first half of 1984 continued the upward trend which began during the last half of 1983. At that time, a turnaround in economic conditions in the United States contributed to the reversal in the 5-year downward

NOTE: Unless otherwise referenced, data in this article were taken from the Summary Statistics section of this report, Petroleum Supply Monthly, DOE/EIA-0109(84/06); Petroleum Supply Annual 1983, DOE/EIA-0340(83) Volumes 1 and 2; Weekly Petroleum Status Report, August 16, 1984, DOE/EIA-0208(84/33) and previous Issues; Petroleum Marketing Monthly, DOE/EIA-0380(84/06); and Short-Term Energy Outlook, May 1984, DOE/EIA-0202(84/2Q). Where final data were not available, estimates were based on preliminary data.

trend in consumption. During the first 6 months of 1984, continued improvement in the economy, combined with a much colder first quarter than in 1983, spurred the increase in consumption. To supplement stable crude oil production in meeting the higher demand for petroleum products, net imports of crude oil and products increased. Motor gasoline stocks increased through May, against the usual seasonal trend. while distillate fuel oil stocks declined dramatically before replenishment began in June. Fewer refineries were operating during the first half of 1984 than during the first half of last year. This decrease in capacity, combined with higher gross crude oil inputs, resulted in improved refinery utilization. Crude oil prices remained stable, while motor gasoline prices declined from the comparable 1983 period, and heating oil prices increased. Rotary rig activity, well completions, and seismic geophysical activity showed moderate increases over the corresponding 1983 levels.

Figure 1. Petroleum Supply, January - June 1981, 1982, 1983, and 1984



Source: Energy Information Administration, "Petroleum Supply Annual," 1981, 1982, 1983; and "Petroleum Supply Monthly," 1984, Note: 1984 data are preliminary.

Consumption

During the first half of 1984, U.S. petroleum consumption (measured as "petroleum products supplied") continued the upward trend which began during the last half of 1983, when consumption increased 4 percent over the first half of last year. Thus far in 1984, consumption of 15.8 million barrels per day was about 6 percent higher than for the comparable months in 1983 (see Figure 1). The continued economic improvement and a winter that was 12 percent colder than the previous one were the primary reasons for increased consumption this year. Consumption of all major products was higher this year than for the comparable 1983 period.

Motor gasoline consumption of 6.6 million barrels per day during the first half of 1984 was about 2 percent higher than for the same period in 1983 (see Table 1). The relatively high primary stock levels helped to hold motor gasoline prices close to or below the 1983 averages. Increased travel this year, combined with stable prices, contributed to the higher consumption, despite continued vehicle efficiency improvements. Record imports of motor gasoline supplemented the slightly higher refinery production to satisfy the higher motor gasoline demand during the first half of 1984.

Distillate fuel oil consumption jumped to 3.0 million barrels per day during the first half of 1984. This was the highest consumption level since the same period in 1979, and was 12 percent above the comparable 1983 level. Despite increased refinery production and higher imports, large withdrawals were needed from already low inventory levels during several months this year. The large withdrawals were necessary: first, to satisfy the surge in heating oil demand during the unusually cold winter; and second, to accommodate the increased demand for diesel fuel for transportation, construction, and farming. The high rate of consumption combined with low primary inventories, resulted in shortages in some areas, and kept distillate fuel oil prices higher than during most of 1983.

Residual fuel oil consumption during the first half of 1984 was 1.5 million barrels per day, about 4 percent higher than the comparable 1983 level. This was also the first increase since 1979. Much of this increase was satisfied by higher imports of residual fuel oil, primarily

from the Virgin Islands (see box on page xv). Consumption during the first quarter was much higher than during the second quarter, as unusually cold weather brought a sharp increase in heating and electric utility needs. As temperatures moderated in the second quarter, consumption dropped 25 percent from the preceding quarter. Second quarter consumption was more in keeping with the downward trend of recent years, at 3 percent below the level during the second quarter of 1983. The high price of residual fuel oil relative to prices of competing fuels has somewhat limited the effects of economic recovery on residual fuel oil consumption.

Consumption of liquefied petroleum gases (LPG's) during the first half of 1984 averaged 1.6 million barrels per day, about 8 percent higher than during the first half of 1983. As with heating oils, the unusually cold winter this year contributed to the higher demand. In addition, recovery in the petrochemical industry accounted for much of the increased demand for LPG's this year. Both imports and stock withdrawals were higher than for the comparable 1983 period, to accommodate increased consumption.

Supply

Domestic Production

Domestic crude oil production during the first half of 1984 was 8.7 million barrels per day, unchanged from the comparable 1983 level, but slightly higher than in 1981 and 1982.

Refinery Operations

Inputs to Refineries

The higher demand for petroleum products during the first half of 1984 required an increase in refinery production, which was about 7 percent higher than for the same period last year. To accommodate this increase,

Table 1. Products Supplied Summary (Million Barrels per Day)

	First 6	months	Percent	Projected	Actual	Projected Percent
Products Supplied	1984	1983	Change	1984	1983	Change
Motor Gasoline	6,6	6,5	1.8	6.6	6.6	0.3
Distillate Fuel Oil	3.0	2.7	11,5	2.9	2.7	6.3
Residual Fuel Oil	1.5	1.5	3.5	1,4	1.4	0.0
LPG's	1.6	1.5	7,8) 4.7	1.5	<i>)</i>
Other Products	3.0	2.7	11.0	} 4.7	3.0	6.3
Total	15.8	14.9	6.0	15.6	15.2	3.1

Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration, Petroleum Supply Annual, 1983; Petroleum Supply Monthly, 1984; Short-Term Energy Outlook, May 1984.

^{&#}x27;The Oll Dally, May 25, 1984, p. 8.

²Energy Information Administration, *Electric Power Monthly*, DOE/EIA-0226 (84/05) (Washington, D.C., July 1984), Tables 12 and 16

The Oil Daily, May 21, 1984, p. C3.

Table 2. Refinery Operations
(Million Barrels per Day)

Operations	Jan. June 1982	Jan. June 1983	Jan June 1984
Refinery Input	11.6	11.4	12.0
Grude Oli Natural Gas Liquids	0.5	0.4	0.5
Other Liquids	0.5	0.4	0.5
Total Input	12.7	12.2	12.9
Refinery Output			
Finished Motor Gasoline	6.2	6.2	6.4
Distillate Fuel Oll	2.5	2.3	2.6
Residual Fuel Oil	1.2	0.9	0.9
Other Products	3.3	3,3	3.6
Total Output	13.2	12.6	13.6

Totals may not equal sum of components due to Independent rounding.

Sources: Energy Information Administration, Petroleum Supply Annual, 1982, 1983; Petroleum Supply Monthly, 1984.

crude oil inputs to refineries rose about 6 percent from comparable 1983 levels, while inputs of other liquids remained close to the levels of recent years (see Table 2).

The average sulfur level of crude oil inputs to refineries has been increasing. This increase is related to a change in the quality of crude oils imported in recent years. Before 1982, between 30 and 40 percent of U.S. imports were lighter, low-sulfur crude oils from Saudia Arabia and Nigeria. These countries now provide about 20 percent of U.S. imports, while the portion imported from Mexico, a producer of heavier crude oils with higher sulfur content, has doubled to about 20 percent. In 1981 the average sulfur level of crude oil inputs was 0.87 percent. During the first half of 1983, the average was 0.89 percent, and this year it increased to an average of 0.94 percent.

Refinery Capacity Utilization

During the first half of 1984, the refinery utilization rate averaged 76 percent, compared with 69 percent for the first half of 1983. The higher rate this year was due to higher gross inputs and lower capacity, as there were fewer active refineries than during the first half of 1983. Although no refinerles were shut down during the first half of 1983, 18 refineries closed during the second half of last year. The effects of these closings were only slightly offset by the reactivation of seven others during the same period. The net closings resulted in a loss of crude oil distillation capacity of 0.7 million barrels per day between the middle of 1983 and the end of the year. Despite the closing of three refineries during the first half of 1984, crude oil distillation capacity was 16.1 million barrels per day, unchanged from the capacity at the end of last year.

Stocks

Crude Oil Stocks

Crude oil stocks (excluding the Strategic Petroleum Reserve) stood at 353 million barrels on June 30, 1984,

slightly above the June 1983 level (see Table 3). During February and March, stocks were drawn down slightly, as increased refinery inputs were needed to satisfy the surge in demand for heating oils. Crude oil stocks were replenished by April and continued upward through May, before declining slightly in June. Relatively high levels of crude oil stocks (now about 30 days' supply, compared with 21 days' supply in 1978) are being maintained in order to meet demand through the use of spare refining capacity. This enables refiners to maintain low products stocks, yet still have the flexibility to meet unexpected demand.

Petroleum Product Stocks

Petroleum product stocks on June 30, 1984, totaled 735 million barrels, 2 percent above the June 1983 level (see Table 3). Continued stock drawdowns of fuel oils were offset by additions to motor gasoline stocks. Although high inventory carrying costs are still a contributing factor to the low total product stocks, the unusually cold weather during the first quarter and increased consumption this year by the industrial and transportation sectors were the primary reasons for the continued stock withdrawals of several major products. Despite higher refinery production and higher imports for these products, stock withdrawals from already-low levels were required to satisfy significantly higher demand than in 1983. In fact, such large drawdowns of distillate fuel oil stocks were required, that stocks fell below the minimum operating inventory level* in April and May. As a result, spot shortages occurred, notably in the Midwestern States, Motor gasoline stocks at the end of 1983 were at the lowest year-end level since 1974. During the first half of 1984, motor gasoline stocks in-

Table 3. Ending Stocks of Petroleum (Million Barrels)

	June	June	Percent
Commodity	1984	1983	Change
Crude OII			
SPR	414	332	24.7
Other	353	351	0.6
Total	766	683	12.2
Products			
Motor Gasoline	245	223	9.9
Distillate Fuel Oll	113	114	- 0.9
Residual Fuel Oil	47	50	6.1
LPG's	106	104	1.9
Other	224	232	- 3.4
Total	735	723	1.7
Total Crude Oil and Products .	1,502	1,405	6,9

Totals may not equal sum of components due to independent rounding.

Sources; Energy Information Administration, Petroleum Supply Annual, 1983; Petroleum Supply Monthly, 1984.

The National Petroleum Council (NPC) defines the minimum operating inventory as the inventory level below which operating problems and shortages would begin to appear in a defined distribution system. In its 1983 study, the NPC estimated this inventory level for distillate fuel oil to be 105 million barrels.

creased substantially through May, against the usual trend of spring drawdowns. Much of the stock buildup resulted from excess production of motor gasoline, which was a coproduct in the production of distillate fuel oil. During the same period, favorable foreign motor gasoline prices resulted in higher imports, which satisfied the slight increase in motor gasoline demand.

Strategic Petroleum Reserve

The Strategic Petroleum Reserve (SPR), authorized under the Energy Policy and Conservation Act of 1975, is intended to reduce the impact of a severe disruption of foreign crude oil supplies to the United States. It is operational with stocks of 414 million barrels at midyear (see Table 3). The current plan approved by Congress is to have 750 million barrels in the SPR (about 90 days total oil import equivalent at 1978 rates) by 1991. At the present import rate, stocks in the SPR at the end of June 1984 represented about 85 days' supply.

If U.S. imports of crude oil alone were cut off, SPR stocks could fill the gap between domestic production and refinery inputs for about 125 days. Currently, imports from the Persian Gulf represent about 10 percent of all U.S. oil Imports. The current SPR Inventory can be drawn down at varying rates over the duration of a drawdown within the constraints of the current maximum sustained drawdown rate. The SPR can currently drawdown and distribute oil from the sites at either an initial average sustained rate of 2.1 million barrels per day for 3 months, or at an initial average sustained rate of 1.7 million barrels per day for a period in excess of 5 months, each alternative being followed by lower rates in subsequent months.

Over the past 5 years, shifts in the demand for oil from Petroleum Administration for Defense (PAD) District II to PAD District III have caused the distribution plan for the SPR oil to require change. Because of the shift in demand, two of the three major pipelines intended to move SPR oil to PAD District II refinerles are no longer available. An expanded distribution system capability along the Gulf Coast is in the planning stages.⁶

For budgetary reasons, the fill rate for SPR stocks during the first half of 1984 dropped 11 percent from the comparable 1983 rate to 190 thousand barrels per day. Of the total stocks in the SPR at mid-year, about 8 percent Is from domestic sources, primarily Alaska. Approximately 35 percent of the stocks in the SPR is from Mexico, 25 percent from the United Kingdom, and about 25 percent is from OPEC countries.

Imports

Total Net Imports

U.S. net imports of crude oil and petroleum products (gross imports, including imports for the SPR, minus exports) averaged 4.8 million barrels per day, 30 percent higher than during the comparable period last year (see Table 4). Because domestic production of crude oil and natural gas ilquids remained about the same, virtually all of the increase in consumption was accommodated by higher imports.

Table 4. Net Imports of Petroleum (Million Barrels per Day)

Commodity	Jan June 1984	Jan June 1983	Percent Change
Crude Oil SPR Other Total	0.2	0.2	- 11.1
	3.0	2.5	17.4
	3.2	2.8	15.1
Products Residual Fuel Oil Motor Gasoline Distillate Fuel Oil LPG's Other Total	0.6	0.5	31,9
	0.3	0.2	40,2
	0.2	0.0	1,346,7
	0.2	0.1	65,0
	0.3	0.1	166,7
	1.6	0.9	75,5
Total Crude Oil and Products .	4.8	3.7	30,0

Totals may not equal sum of components due to Independent rounding.

Sources: Energy Information Administration, Petroleum Supply Annual, 1983; Petroleum Supply Monthly, 1984.

Crude Oll Imports

Net imports of crude oil, excluding the SPR, during the first half of 1984 averaged 3.0 million barrels per day, 17 percent above the comparable 1983 level, when high foreign crude oil prices and low domestic demand brought crude oil imports to their lowest level since 1972. The higher imports this year are associated with a 15 percent lower price than in early 1983, with the need to supplement crude oil production to meet higher product demand, and with the need to rebuild crude oil stocks so that refiners can maintain flexibility in meeting unexpected demand. During the first 6 months of 1984, imports accounted for about 25 percent of the refinery inputs, compared with 22 percent during the first 6 months of 1983.

Gross Imports of crude oil, including Imports for the SPR, this year averaged 3.4 million barrels per day, compared with 2.9 million barrels per day during the first half of 1983 (see box on page xv). Crude oil imports for the SPR averaged 0.2 million barrels per day, approximately 6 percent of all U.S. crude oil imports, compared with 7 percent during the first half of 1983.

Product Imports

During the first half of 1984, net imports of petroleum products averaged 1.6 million barrels per day, higher than at any time since 1979. This average was about 76 percent higher than the comparable 1983 average and about 14 percent higher than during the last half of 1983.

⁸U.S. Department of Energy, Office of the Deputy Assistant Secretary for the Strategic Petroleum Reserve.

^{*}The Wall Street Journal, May 24, 1984, Section 2.

Changing Patterns of Petroleum Imports

Crude Oil

Crude oil imports increased moderately during the first half of 1984 from the comparable 1983 period, as improved economic conditions contributed to higher demand for petroleum. The entire increase was due to higher crude oil imports from the Organization of Petroleum Exporting Countries (OPEC). Imports declined dramatically between early 1980 and early 1983, in association with the drop in petroleum demand during that time. Imports from OPEC countries plummeted during that period, while supplies from non-OPEC countries grew.

The doubling of foreign crude oil prices between early 1979 and early 1980 contributed to the dramatic downward trend in imports, which ended during the first half of 1983. In early 1983, foreign crude oil prices decreased moderately and U.S. petroleum demand began to rise in association with the economic turnaround. Crude oil imports then began to increase, and remained higher during the first half of 1984 than for the same period in 1983.

U.S. reliance on OPEC countries for crude oil was drastically reduced between early 1980 and early 1984. In early 1980, OPEC countries provided three-quarters of all crude oil imports; so far this year, they accounted for about 45 percent. While the share of total crude oil imports from non-Arab OPEC countries was about 25 percent throughout this period, the share from Arab OPEC countries fell from 48 percent in early 1980 to 11 percent in early 1983, before increasing to about 19 percent this year.

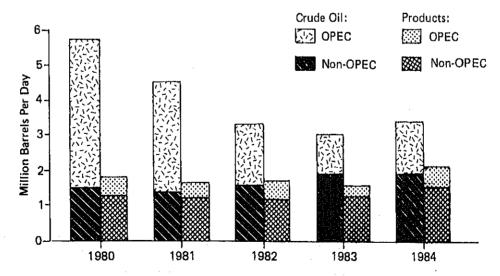
Crude oil imports from non-OPEC countries grew 25 percent between 1980 and 1983, and have been stable in the first half of 1984. Imports from Mexico increased 28 percent between early 1980 and this year. Mexico now represents about 20 percent of all crude oil imports; Canada and the United Kingdom together account for about 20 percent. In 1980, the combined share from these three countries was only 17 percent.

Petroleum Products

Gross imports of petroleum products averaged about 1.6 million barrels per day from early 1980 to early 1983, before increasing substantially this year. Product imports in early 1980 represented 23 percent of all imports; by early 1983 they accounted for 35 percent. During the first half of 1984, product imports grew more than crude oil imports, constituting about 38 percent of the total. Residual fuel oil and LPG's together accounted for 75 percent of all products imported in 1980; now residual fuel oil and motor gasoline together account for about 51 percent of product imports.

Throughout this 5-year period, Canada and the Virgin Islands have been the major suppliers of foreign products. In 1980 they accounted for about 40 percent of the product imports, compared with about 30 percent this year. OPEC countries accounted for about one-fourth of the product imports throughout this period. Imports from Arab OPEC countries, however, have grown from 2 percent in early 1980 to about 9 percent during the first half of 1984. Product imports from Arab OPEC countries are expected to grow even more, as refinery production in these countries increases.

Gross Imports of Crude Oil and Petroleum Products, by Source, January-June 1980-1984



Source: Energy Information Administration, "Petroleum Supply Annual" and predecessor reports, 1980, 1981, 1982, 1983; and "Petroleum Supply Monthly", 1984.

1984 data are preliminary.

As demand for major products increased during the last half of 1983, increased imports replaced large stock withdrawals as the primary means of supplementing domestic production to meet higher product demand. This year, even though product imports increased significantly, the surge in demand for some products required further drawdowns from low stock levels to supplement production and net imports.

All major products showed substantial increases in net imports over 1983 levels. Imports of residual fuel oil, the principal product imported, increased during the first half of 1984; they had been declining for the previous 7 years. Its share of total net imports dropped to about 39 percent this year from 52 percent in the comparable 1983 period, as net imports for all other products increased solidly. Imports this year were highest in January and February to accommodate higher demand for winter heating fuels.

Net Imports of motor gasoline, distillate fuel oil, and LPG's are small by comparison to residual fuel oil imports, but notable changes have occurred in recent years.

Motor gasoline imports have been rising since early 1982 and have been at record levels since the middle of 1983. This year motor gasoline imports represented over 4 percent of product supplied; historically they have accounted for only 2 or 3 percent.

Net imports of distillate fuel oil have averaged about 7 percent of product supplied since the middle of 1983, but accounted for practically none during 1982 or the first half of 1983. During that period, refiners drew down distillate fuel oil stocks to satisfy declining demand as a means of reducing high carrying costs. They also cut back refinery production and kept imports near minimum levels. Unusually cold weather at the beginning of 1984 and increased transportation use of diesel fuel contributed to an 11-percent rise in distillate fuel oil demand over comparable 1983 levels. With little cushion in distillate fuel oil stock levels, higher imports were needed to supplement refinery production.

Net imports of LPG's also grew substantially during the first half of 1984, primarily as a result of much lower exports than a year earlier. In early 1983, U.S. exports of LPG's had helped to fill the demand created when Saudi Arabia reduced its crude oil production (directly related to LPG production). Demand for LPG's also shot upward during the first half of 1984 due to a combination of colder weather and increased petrochemical industry activity. Stock drawdowns and imports both increased in order to meet the higher demand.

Gross imports of petroleum products of 2.1 million barrels per day were 34 percent higher during the first 6 months of 1984 than in the comparable 1983 period (see box on page xv), and 12 percent higher than during the second half of last year. Although gross product imports increased substantially this year, net imports increased even more because of lower exports. A 28-percent drop in product exports (primarily residual fuel oil and petroleum coke) during the last half of 1983, to 0.5 million barrels per day, was associated with the strengthened position of the U.S. dollar against foreign

currencies. Exports remained at the same level during the first half of 1984 and were the principal factor in the 76-percent increase in net imports.

Exploration and Development

U.S. drilling activity, which showed gradual recovery during the last half of 1983, has been running higher each month during the first half of 1984 than for the comparable 1983 months. In April, normally the low point for drilling activity, 15 percent more rotary rigs were operating than in April 1983. The average number of rigs operating so far this year was 12 percent higher than for the same period in 1983. Drilling activity is expected to increase during the remainder of 1984.

Geophysical activity, a leading indicator of future oil and gas exploration activity, was also higher during the first half of 1984 than for the corresponding 1983 period. Even though bad weather contributed to a moderate decline in the number of seismic crews searching for oil and gas in March, the seismic crew count of 471 was 5 percent higher than the March 1983 level, which was the low point last year. Seismic crew activity in the United States and on its Outer Continental Shelf rose slightly in April 1984, and increased sharply in May and June. Of the 500 active crews in June, 455 were land crews and 45 were on marine vessels.⁸

Well completions during the first 6 months of 1984 were about 4 percent higher than during the comparable 1983 period. This was about 7 percent lower than the record number drilled during the first half of 1982 (see Table 5). The total footage of completed wells also increased. The average depth per well completed so far this year was 4,313 feet, slightly deeper than the average depth during the same period in 1983. Oil wells ac-

Table 5. Drilling Activity

Item	Jan	Jan	Jan.
	June	June	June
	1982	1983	1984
Average Number of Rigs Operating ¹	3,660	2,095	2,349
Total Wells Drilled ² Exploratory Development	43,666	38,907	40,466
	8,791	7,544	7,347
	34,875	31,363	33,119
Oil	20,583	18,431	20,238
Gas	9,225	8,070	7,535
Dry Holes	13,858	12,406	12,693
Average Depth per Well (feet) .	4,819	4,291	4,313

'Hughes Tool Company, Rotary Rigs Running—By State, (Houston, Texas: 1982-1984).

²American Petroleum Institute, Report on Drilling Activity in the United States, (Washington, D.C.: January 1982-June 1984).

⁷Austin, Thomas S., Jr., Hughes Tool Company, Houston, Texas, presentation before the Independent Petroleum Association of America Supply and Demand Committee, May 1984.
Society of Exploration Geophysicists, News Release, (Tulsa, Oklahoma: July 5, 1984).

counted for half of the well completions, dry holes for about one-third, and gas wells for about one-fifth.

Price Trends

Crude Oil Prices

Crude oil prices at the end of June 1984 remained close to \$29 per barrel. Prices dropped from \$34 per barrel to this level in March 1983, in reaction to pressures caused by weak world petroleum demand, rellance on stock withdrawals rather than imports to meet demand. and excess world crude oil production capacity. During the first half of 1984, conflicting factors held crude oil prices near the \$29 level. Downward pressure related to the excess world crude oil production capacity was offset by increasing world demand for petroleum, and stock drawdowns as a means of meeting demand were not as prevalent. Uncertainty caused by the recent threat of a supply cutoff from the Persian Gulf, which provides about 20 percent of the free world's supply of oil, has not caused a rise in crude oil prices, primarily because the accumulated strategic crude oil stocks outside the Persian Gulf are perceived to be adequate to counter such a disruption.16

The refiner acquisition cost of crude oil, which was \$35.03 in June of 1981 (see Table 6), averaged \$28.77 in June 1984. This was very close to the average price that held throughout most of 1983.

Table 6. U.S. Average Petroleum Prices

Petroleum	June	June	June	June
Prices	1981	1982	1983	1984
(Dollars p	er Barre	1)		
Refiner Acquisition Cost of			·	
Crude Oil				
Domestic	34.20	30,79	28.67	28.58
Imported	37.03	33.79	29.23	29,19
Composite	35.03	31.74	28,85	28.77
(Cents pe	r Gallor	1)		
Motor Gasoline, All Types,				
Retall	136.2	129,6	126.1	121.4
No. 2 Heating Oil, Retail1	120.9	116.2	106.0	n107.0

¹⁹⁸³ and 1984 prices exclude taxes. p = preliminary.

Petroleum Product Prices

In a counterseasonal move, average motor gasoline retail prices fell to 121.4 cents per gallon in June, 4 percent lower than for the same period of 1983, and 11 percent below the June 1981 prices. Steady increases In motor gasoline primary stocks during the first half of 1984 contributed to lower prices, assuring abundant supplies to meet the expected higher demand during the summer driving season.

The surge in heating oil demand during the unusually cold winter of 1984 prompted sharp rises in the retail price of residential heating oil during January and February. By February, the price was 10 percent higher than at the end of last year, and 5 percent higher than in February 1983. After peaking in February this year, prices declined each month through June, but remained higher than during the corresponding months of 1983. The residual effects of the winter price rise, along with continued tight supplies of distillate fuel oil, contributed to the higher prices this spring.

The residual fuel oil price is related to the international market price, because almost half of the residual fuel oil supplied is from foreign sources. Associated with increased demand for residual fuel oil at foreign utilities at times during the past year, residual fuel oil prices on the spot market have been close to, or higher than, the price of crude oil. Increased international demand, combined with the higher U.S. demand during the first quarter of 1984 to accommodate increased heating needs, has kept the residual fuel oil price close to \$29 per barrel. During the first half of 1983, residual fuel oil prices on the spot market were substantially below crude oil prices.

Outlook

A return to normal weather and a slower rate of economic improvement are expected during the last half of 1984. These two factors should change the trends that developed during the first half of the year to some degree. The outlook for the remainder of 1984 follows:

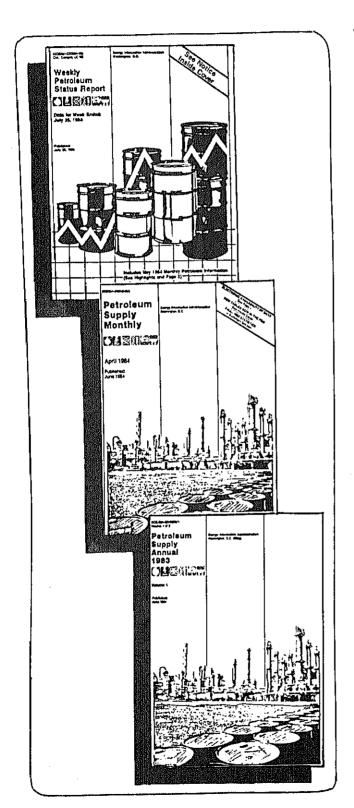
- Consumption of petroleum products will be a little higher than for the comparable 1983 period.
 - Domestic crude oil production will remain close to 8.7 million barrels per day for the remainder of the year.
 - Crude oil and product prices are expected to remain relatively stable, with some seasonal variations.

Sources: Energy Information Administration, Form 14, "Refiners' Monthly Cost Report;" Form EIA-9A, "No. 2 Heating Oil Supply/Price Monitoring Report;" Form EIA-782A, "Monthly Petroleum Product Sales Report;" and Form EIA-782B, "Monthly No. 2 Distillate Sales Report." Motor gasoline prices: Bureau of Labor Statistics.

^{*}American Petroleum Institute, Report on Drilling Activity In the United States, (Washington, D.C.: January 1982-June 1984).

¹⁰ The Oil Daily, April 27, 1984, p. A3.

Timeliness and Accuracy of Selected Petroleum Supply Data Series



The Petroleum Supply Division (PSD) of the Energy Information Administration (EIA) operates an information collection and dissemination system that includes weekly, monthly, and annual surveys. The monthly surveys are complete censuses of the operators of facilities that provide the primary supply of petroleum products in the United States (refineries, bulk terminals, pipelines, importers, etc.). These monthly surveys gather detailed information on production, stocks, imports, and flows of crude oil and a wide range of petroleum products. The weekly surveys collect data on the most important petroleum variables from selected samples of petroleum industry members. Weekly data are intended to serve primarily as leading indicators of the monthly statistics.

From 1981 through 1983, several significant changes were made to enhance petroleum data collection, processing systems, and publications. The effects of these changes on the quality of preliminary statistics can be assessed now that final statistics have been compiled and published in the 1983 *Petroleum Supply Annual* (PSA).

This article describes the enhancements which were implemented in the past 3 years. Also, it looks at the types of errors the petroleum data are subject to. Finally, it presents an assessment of the accuracy of weekly and monthly published statistics in 1983, compared with their accuracy in prior years. The article concludes that the quality of most data series has been maintained or improved, even as processing time schedules have been compressed.

Enhancements to PSD Data

On October 1, 1977, with the formation of the EIA, units from the Bureau of Mines (BOM), the Federal Energy Administration (FEA), and the Federal Power Commission (FPC) were merged together. The data systems dealing with petroleum supply data were developed independently by each of these agencies. During the first several years of EIA's existence, improvements were made in these systems, but it was not until the formation of the Petroleum Supply Division (July 1981) that a comprehensive approach to the integration of these diverse systems was undertaken.

Within the first year, the entire processing system was redesigned and the Petroleum Supply Reporting System (PSRS) was created (see box). Eleven publications were consolidated into three: Weekly Petroleum Status Report (WPSR), Petroleum Supply Monthly (PSM), and Petroleum Supply Annual (PSA). Surveys and processing procedures were scheduled so they would fit together to produce these three reports smoothly. In doing so, duplication was eliminated, the

Petroleum Supply Reporting System

The information gathered by the Petroleum Supply Reporting System (PSRS) is used to determine the supply and disposition of crude oil, petroleum products and natural gas liquids. These statistics are published in the "Weekly Petroleum Status Report" (WPSR), the "Petroleum Supply Monthly" (PSM), the "Petroleum Supply Monthly" (PSM), the "Petroleum Supply Annual" (PSA), the "Monthly Energy Review" (MER), and the "Annual Energy Review" (AER). In addition, selected statistics from the PSRS are available free to the public through EIA's Electronic Publication System (EPUB). The PSRS is the most comprehensive source of petroleum supply statistics currently available,

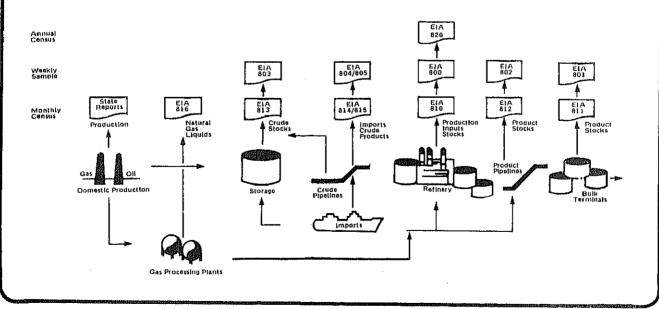
The PSRS consists of one annual, eight monthly, and six weekly surveys which collect information on domestic production, inventories, imports, and movements of petroleum (see figure below). Data from these surveys are supplemented by the Census Bureau's IM-145 tabulation which provides information on imports of liquefied petroleum gases and the Census Bureau's EM-522 tabulation which provides information on petroleum exports. EIA's crude oil production data are based on information collected by State agencies and the U.S. Geological Survey.

The PSRS has seven sampling frames for different sectors of the petroleum industry: refineries and mechanical blenders, bulk terminals with a capacity of 50,000 barrels or more, product pipelines, holders of crude oil stocks having possession of 1,000 barrels or more, petroleum importers, gas processing plants, and tanker and barge companies. The petroleum universes are relatively small and everchanging due to company births, deaths, mergers, and splits. All frames are updated continuously. Investigations of the adequacy of the frames are conducted periodically.

The annual and monthly surveys are complete censuses. The weekly surveys are collected from 90 percent cut-off samples selected from the universes of those units that report to the monthly surveys. Unlike the monthly surveys which collect data on as many as 50 variables, the weekly surveys collect data only on crude oil, motor gasoline, jet fuel, distillate fuel oil, and residual fuel oil. Most of the data reported in the weekly surveys are estimated by the reporting companies, while data reported in the annual and monthly surveys are based on company accounting records. Inventory data are reported as of the end of the reference period. Data on imports, inputs, outputs. and movements of crude oil and petroleum products between PAD Districts show the total volume of activity for the reference period. All quantities are reported in thousand barrels (42 U.S. gallons). Zeros often dominate the responses; i.e., not all of the units produce and/or store all products. The distributions of the petroleum supply variables are highly skewed; i.e., there are many small units and few large ones.

The reference period for the weekly surveys extends from 7 a.m. Friday to 7 a.m. the following Friday. These data are published in the "WPSR" on Thursday following the close of the reference week. The reference period for the monthly surveys begins 12 a.m. of the first day of the month and ends midnight of the last day of the month. These data are published in preliminary form in the "PSM," 60 days after the close of the reference month. Data resubmissions are required whenever an error greater than 5 percent of the true value is discovered by a respondent, or if requested by the EIA to correct internal inconsistencies. Final data, reflecting any necessary corrections, and the results of the annual survey (Form EIA-820, "Annual Refinery Report") are published in the PSA, 6 months after the close of the calendar year.

Principal Petroleum Supply Survey Forms



number of revisions was substantially reduced, inconsistencies in the publications were eliminated, and it became easier for users to locate and use the data produced.

On July 14, 1983, EIA began to publish weekly data in the WPSR on the Thursday following the report week. Prior to that time, the WPSR was published on the Friday following the report week. This change requires completion of final data estimates one day earlier. Also, EIA discontinued revising the published weekly estimates.

The PSM now publishes monthly data 60 days after the end of a report month. Prior to the PSM consolidation, data appeared in the Monthly Petroleum Statistics Report (MPSR) 60 days after the end of a report month and In the Monthly Petroleum Statement (MPS) 90 days after the end of the report month. The MPS's time schedule allowed revisions to reflect company resubmissions and corrections, inclusion of data from companies that were nonrespondents at the last publication, and correction of data processing errors. While the time lag for publication of monthly data in the PSM is virtually the same as in the MPSR, the PSM presents more comprehensive statistics than previously provided in the MPS. Monthly estimates derived from weekly data are also published in the PSM 30 days after the end of a report month.

Final monthly data are now published in the PSA 6 months after the close of the calendar year. Prior to the March 1982 consolidation, final data were published in the Annual Petroleum Statement (APS) 9 months after the close of the calendar year.

Beginning with the reporting of January 1983 data, new revised survey forms were implemented. (A detailed explanation of all the changes made to the survey forms is contained in the March 1983 *PSM*.) Consistency among weekly, monthly, and annual survey forms was enhanced by using a single set of definitions, consistent reporting instructions, identical product codes, and common company and facility identifiers.

A major update to the survey frames was implemented in January 1983, based on results of a study begun in 1981. Operators of 160 bulk terminals, 15 pipelines, and 30 crude oil stock holders were added to the respective frames. In addition, 50 facilities that reported to the "Natural Gas Liquids Operations Report" were transferred to the bulk terminal frame. EIA's estimates of total stocks of petroleum products increased 2.2 percent as a result of this change.

In January 1983, a new processing system was implemented for all of the weekly surveys. An automated

editing procedure was implemented to validate facility-level data for each of the weekly surveys. Also, an automated procedure was implemented to impute for missing or faulty data. Prior to this, nonrespondents were treated as nonsampled units. Major changes to the weekly imports data estimation procedures were also implemented. In March 1983, new samples were drawn for the weekly surveys to reflect the expanded frames. Along with the new samples, new sample control procedures were implemented to maintain the appropriate level of coverage and to ensure that the weekly and monthly data remain consistent.

In March 1983, a new processing system was implemented for all of the monthly surveys. Imputation procedures used for nonresponse in the monthly surveys since 1976 were revalidated and additional automated edit procedures are now being implemented.

In an effort to improve the quality of petroleum supply data, an on-going comparison of data submitted by Individual companies on the weekly and monthly forms is routinely conducted. Historical reporting patterns for both monthly and weekly surveys are compared, and facilities that systematically report different values on the weekly and monthly surveys are identified. Letters are sent to those companies showing a large average difference in monthly and weekly reporting for three or more products over a period of 12 months and large differences (in the same direction) over the most recent 2 months. Companies with major sustained discrepancies for one or two products are contacted by phone.

To monitor values of key variables reported in the weekly and monthly surveys, graphical comparisons are drawn between published monthly data for a particular variable and the monthly value derived from weekly data for that variable.

Last, but not least, is the implementation of a system for documenting the steps being taken to improve data quality. A "Quality Control Notebook" is prepared to summarize current activities, evaluate current data quality, and establish an agenda for future enhancements or studies.

Sources of Error

In evaluating the accuracy of a survey, it is necessary to distinguish two sources of errors: sampling and non-sampling errors.

Sampling Error

Sampling errors are unavoidable when estimates are based on a sample and not on the whole universe. Nevertheless, they can be controlled within limits fixed in advance, and they can also be estimated objectively from the sample itself. Weekly estimates, all based on samples, are subject to this type of error. This accounts for part of the difference between published weekly

estimates and final annual figures. However, the fact that the sample accounts for 90 percent or more of the aggregates being estimated assures small sampling errors.

Nonsampling Errors

These errors can be classified into two groups—random types of errors whose effects nearly cancel out, and nonrandom types which tend to remain more-orless fixed and constitute a systematic error. Both weekly and monthly data are subject to nonsampling errors. Four of the main contributing causes of these errors are as follows:

- 1. Frame error: PSRS frames are continually reviewed and updated in order to reduce undercoverage. In general, faults in the frames are small compared to other errors.
- 2. Nonresponse error: PSRS surveys have very high response rates. The response rates are usually above 95 percent for the weekly surveys and are always above 98 percent for the monthly surveys. Missing or faulty weekly data are imputed using the exponentially smoothed average of respondent's past reported values. The monthly processing system uses the data reported in the previous month as the imputed value for the missing data for all surveys except the import survey. Because of the high rates of response and the use of imputation procedures, nonresponse error has a negligible impact on PSRS data accuracy.
- 3. Processing error: Data keying into computer files presents another opportunity for error; for example, two digits may be transposed or a datum may be entered in the wrong cell. Depending on their magnitude, some of these clerical errors may be detected by automated edit procedures that check current data for consistency with past data and for internal consistency; e.g., totals equal to the sums of the parts. However, processing errors cannot always be detected, especially if they are of small magnitude.
- 4. Response error: Response or reporting error (the difference between the true value and the value reported on the survey form) is the major factor affecting the accuracy of PSRS data and, in particular, preliminary data. Most discrepancies between preliminary and final data are due to reporting errors. Reporting errors can take many forms. For example, human errors may also occur when figures are written on forms by respondents. Often these mistakes can be detected and resolved by editing procedures. Sometimes, company records are not finalized at the time monthly survey forms are due and respondents submit preliminary estimates. This error is noticeable in import data because final company import records are not available until forms have been verified by the U.S. Customs Service. These errors may cause large discrepancies between

preliminary and final data. Most companies can only report estimates for weekly data. Any error in these estimates will affect the accuracy of weekly data. Sometimes product identification changes during the period between weekly and monthly data submissions. For example, a respondent may initially report the production of oil as residual fuel oil on the weekly form and later decide to process it further. When he files his monthly form, he may record the same oil as unfinished oil, since it is no longer regarded as residual fuel oil. This change again affects the accuracy of the weekly data.

Data Assessment

This section tracks the change in accuracy of PSRS data as the data move from preliminary publication (PSM) to final publication (PSA). In addition to preliminary monthly data, the PSM reports monthly estimates derived from the weekly data for the most recent month (see Explanatory Note 8 in this publication). Monthly-from-weekly estimates (MFW) are also compared with preliminary (PSM) and final (PSA) monthly data as part of on-going data quality activities.

Before proceeding, it is important to keep in mind three points. First, weekly data, based on estimates provided by a sample of companies, were intended to serve primarily as leading indicators of the monthly data and were never expected to have the same level of accuracy. Second, the method used to derive the monthlyfrom-weekly estimates assumes that input, production, and stock addition or withdrawal are constants across each day of the week. Accuracy of these monthly-fromweekly estimates depends on the realization of the assumption. Third, final monthly data are still subject to errors. However, these final data accommodate revisions made by respondents following thorough review and editing by government and company statisticians and are considered to be the most accurate data available.

In order to assess the accuracy of monthly estimates developed from weekly data (MFW) and preliminary monthly values (PSM), they are compared with the final monthly values (PSA). The error for a given value is the difference between Interim monthly value (MFW or PSM) and the final monthly value (PSA). The percent error is the error multiplied by 100 and divided by the final monthly value. Absolute mean error is the average of the absolute values of the errors over 12 months. Absolute mean error provides a measure of the average magnitude of revision which occurred over the year for a particular data series. Absolute mean percent error is the average of the absolute values of the percent errors over 12 months. Absolute mean percent error provides a measure of the average error relative to the aggregate. being measured. Table 1 displays absolute mean errors and absolute mean percent errors of monthly-fromweekly estimates and preliminary monthly values for 30 petroleum variables for 1982 and 1983.

Table 1 shows that the majority of data series have improved in 1983. Except for refined product imports, absolute mean percent errors for all preliminary monthly data (*PSM*) are less than 2 percent. For the monthly-from-weekly estimates, absolute mean percent errors of residual fuel oil imports, production and stocks are high (4.80 to 6.59 percent). Absolute mean percent errors of refined product imports are also high; however, for most products, the volume of imports is relatively small.

Highlights of interim (MFW and PSM) and final (PSA) monthly data comparisons are presented in Figures 1 through 3 for selected petroleum data series—stocks and inputs of crude oil; production and stocks of motor gasoline, distillate fuel oil, and residual fuel oil; and imports of crude oil and petroleum products. These data series were carefully selected for analysis and target improvement in 1982, because of their relative size, and because other major variables (such as the product supplied series) are generated from them.

Table 1. Summary Statistics of Differences in Reporting Between Interim Publications and Petroleum Supply Annual in 1982 and 1983

	Mor	nthly-from-W	eekly Estin	ates	F	reliminary	Monthly Data	
		olute Error*		te Mean nt Error	Abso Mean		Absolut Percen	
Variable -	1983	1982	1983	1982	1983	1982	1983	1982
Total Products Supplied	303	340	1.95	2.22	74	50	.49	.32
Refinery Output	249	180	1.96	1.35	23	14	.17	.10
Crude Input	112	127	.97	1.08	12	10	.13	.09
Crude Production	84	29	.97	.33	80	47	.93	.55
Total Imports	171	406	3.84	8.18	66	72	1.37	1.45
Crude Imports	119	153	3.85	4.50	35	29	1.17	.89
Product Imports	173	272	10.27	16.64	36	44	2.06	2,73
Gasoline Imports	29	34	11.02	17.38	10	11	4.56	5.43
Distillate Imports	22	27	13.18	27.90	5	2	3.46	1.60
Residual Imports	46	97	6.59	12.68	10	19	1.36	2.66
Jet Fuel Imports	10	10	32.83	38.25	4	2	12.67	6.77
Other Products Imports	89	152	15.00	28.90	21	13	3.67	2.40
On a silvery Overalled	94	200	1.41	3.01	27	36	.42	.56
Gasoline Supplied	94 75	101	2.62	3.87	20	25	.74	.86
Distillate Supplied Residual Supplied	75 91	108	6.16	6.35	19	27	1.32	1.45
Jet Fuel Supplied	39	31	3.72	3.09	11	7	1.10	.70
Other Products Supplied .	210	161	6.12	4.75	55	43	1.64	1.29
O II Bandustina	20	97	.49	1.54	10	11	.16	.17
Gasoline Production	32 31	97 29	1,27	1.11	.3	6	.13	.25
Distillate Production Residual Production	31 41	39	4.80	3.68	7	13	.78	1.16
Jet Fuel Production	14	16	1.39	1.61	3	· 1	.27	.14
Other Product Production	199	122	8.53	5.04	6	5	.26	.23
Total Stocks	7.610	10,753	.69	.95	3,543	2,560	.32	.22
Product Stocks	7,618 9,607	5,459	1.28	.70	1,231	2,489	.16	.32
Crude Stocks	9,607 4,646	10,017	1.34	2.82	3,205	1,219	,92	.34
Gasoline Stocks	3,035	2,687	1.33	1.16	563	1,100	.24	.46
Distillate Stocks	1,448	3,795	1.09	2.60	476	552	.33	.42
Residual Stocks	2,607	1,956	5.11	3.24	143	172	.28	.29
Jet Fuel Stocks	821	447	1,98	1.11	422	93	1.03	.24
Other Products Stocks	5,773	6,815	2.00	2.25	1,099	1,242	.39	.41

^{*}All absolute mean errors are reported in thousand barrels per day, except stock data, which are reported in thousands of barrels. Note: Absolute mean error is the average of the absolute values of errors over 12 months; absolute mean percent error is the average of the absolute values of percent errors over 12 months.

Crude Oil Inputs to Refineries Motor Gasoline Production 1981 1982 1983 1981 1982 1983 4% 4% Percent Error 0% 0% -4% -4% Distillate Fuel Oil Production Residual Fuel Oil Production 1981 1982 1983 1981 1982 1983 8% 8% 40/ 4% Percent Error 0% 0% .4% -4% ·8%\ -8% Monthly from Weekly vs. PSA Preliminary Monthly vs. PSA

Figure 1. Range of Percent Errors of Interim Refinery Inputs and Production Data.

Note: Diamond = Median of percent errors; i.e., the average of the two middle values are arranged in order of magnitude.

Bar = Range of percent errors occurring during the year; i.e., the upper end point of the bar is the maximum percent error and its lower end point is the minimum percent error.

Source: Energy Information Administration.

Refinery Inputs and Production

Except for residual fuel oil, there was some improvement in weekly inputs and production data during 1983 (see Figure 1). Weekly residual fuel oil production shows positive bias, due to problems in product classification. Residual fuel oil might be classified an unfin-

ished oil or as residual fuel oil depending on whether it is to be further processed or sold.

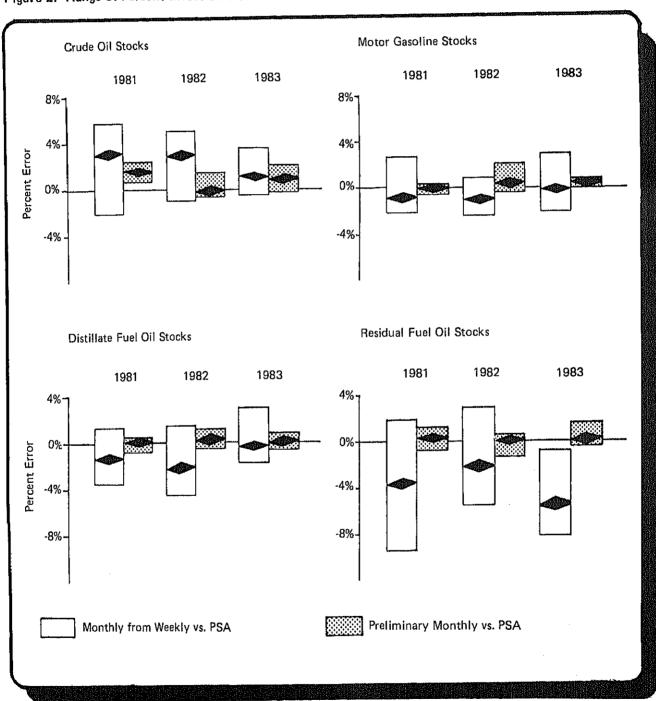
The accuracy of monthly refinery inputs and production data remained about the same in 1981, 1982, and 1983 except for residual fuel oil, which improved in 1983. Revisions were less than 1 percent except for one month (3.8 percent).

Stocks

Accuracy of the weekly stocks data improved slightly in 1983 except for residual fuel oil (see Figure 2). Weekly residual fuel oil stocks data are still systematically low because of reporting errors of a few bulk terminals. Weekly crude oil stocks showed a slight positive bias.

While motor gasoline stocks data showed improvement, accuracy of most monthly stocks data series remained about the same. In general, revisions in monthly stocks data, although large volumetrically, were proportionally small during 1983.

Figure 2. Range of Percent Errors of Interim Stocks Data.



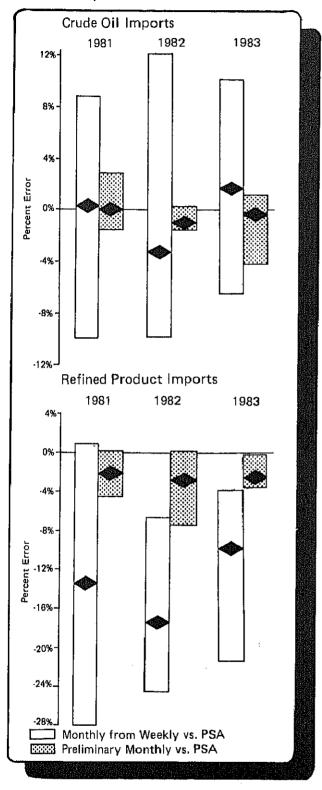
Note: Diamond = Median of percent errors; i.e., the average of the two middle values when the values are arranged in order of magnitude.

Bar = Range of percent errors occurring during the year; i.e., the upper point of the bar is the maximum percent error and its lower end point is the minimum percent error.

Source: Energy Information Administration

XXIV

Figure 3. Range of Percent Errors of Interim Imports Data



Note: Diamond = Median of percent errors; i.e., the average of the two middle values when the values are arranged in order of magnitude.

Bar = Range of percent errors occurring during the year;
i.e., the upper end point of the bar is the maximum percent error and its lower end point is the mini-

mum percent error.

Source: Energy Information Administration.

Imports

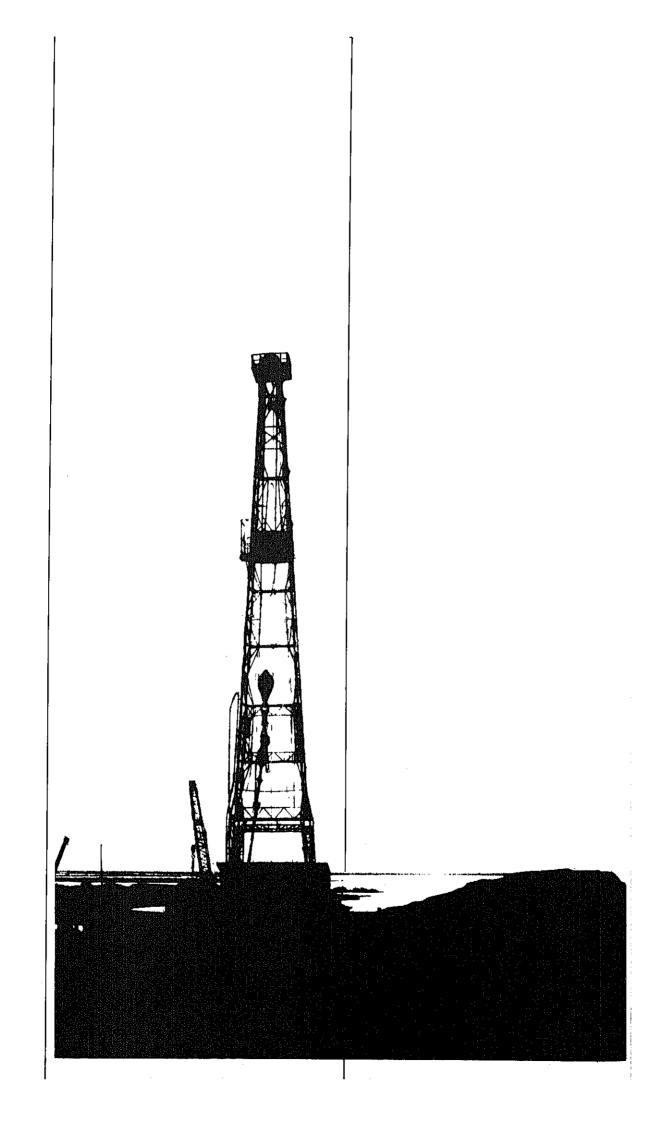
Figure 3 shows that the accuracy of weekly crude oil and refined product imports data improved slightly in 1983. Weekly imports data show relatively large errors. Imports data are highly variable and cannot be estimated from a sample with the same precision as the other petroleum variables. In addition, most imports data are estimated by respondents. Weekly estimates of refined product imports are almost always low, because small companies, which are not in the weekly sample, tend to exhibit irregular import patterns; i.e., they import large amounts of finished products only once or twice a year.

Accuracy of monthly refined product Imports data improved in 1983. In general, Imports data are subject to larger revision than the other petroleum variables, because final company import records are not available until forms have been verified by the U.S. Customs Service.

Conclusion

Data quality efforts have enabled EIA to advance the timing of its weekly and monthly petroleum supply publications while maintaining the accuracy of most data series. Overall improvement in petroleum supply data has been a joint effort involving more timely and consistent reporting by respondents, and the development of systematic processing procedures, improved edit and estimation methods, and more thorough follow-up and reconciliation of aberrant data.





		Fi	eld Production	1	Stock Wit	hdrawal ²		Ending Stocks ³
		Total	Crude Oil	Natural Gas Plant Production	Crude Oil ⁵	Petroleum Products	Petroleum Products Supplied	Crude Oll ⁵ and Petroleum Products
	ļ			Thousand Bar	rrels per Day			Million Barre
			0.000	1,738	11	-146	17,308	1,008
973	AVERAGE	10,975	9,208		-62	-117	16,653	8 1,074
974	AVERAGE	10,498	8,774	1,688	8 - 17	8145	16,322	1,133
975	AVERAGE	10,045	8,375	1,633	-39	96	17,461	1,112
976	AVERAGE	9,774	8,132	1,603		-378	18,431	1,312
977	AVERAGE	9,913	8,245	1,618	170	-370 172	18,847	1,278
978	AVERAGE	10,328	8,707	1,567	-78	-25	18,513	1,341
979	AVERAGE	10,179	8,552	1,584	-148			8 1,392
980	AVERAGE	10,214	8,597	1,573	-98	-42	17,056	
981	AVERAGE	10,230	8,572	1,609	B -290	⁸ 130	16,058	1,484
		10,128	8,509	1,578	-401	1,298	16,124	1,456
982	January		8,702	1,563	-242	1,230	16,001	1,428
	February	10,312	8,667	1,572	121	1,047	15,560	1,392
	March	10,284		1,542	-37	1,583	16,046	1,346
	April	10,188	8,591	1,518	29	-66	14,847	1,347
	Мау	10,244	8,683		40	-489	14,998	1,360
	June	10,212	8,646	1,511	-147	-926	14,821	1,393
	July	10,229	8,658	1,513		-44	14,839	1,408
	August	10,215	8,634	1,524	-440	-447	15,022	1,414
	September	10,279	8,701	1,518	263		14,859	1,432
	October	10,299	8,701	1,530	-548	-47 004	15,009	1,455
	November	10,359	8,697	1,609	-398	-361		в 1,430
	December	10,276	8,598	1,628	128	688	15,487	- 1,400
	AVERAGE	10,252	8,649	1,550	-136	283	15,296	
4000		10,331	8,697	1,580	B -499	8 772	14,722	1,452
1983	January	10,388	8,758	1,575	-320	1,113	14,792	1,430
	February		8,700	1,541	83	1,810	15,541	1,372
	March	10,279	8,776	1,506	-402	308	14,692	1,374
	April	10,322	8,631	1,493	-15	-602	14,505	1,394
	May	10,190	•	1,523	-122	-276	15,289	1,405
	June	10,261	8,667	1,539	233	-909	15,019	1,426
	July	10,228	8,636		-796	-271	15,480	1,460
	August	10,284	8,679	1,562	-239	-621	15,506	1,485
	September	10,447	8,784	1,602	-23 5 -274	-442	14,962	1,508
	October	10,434	8,771	1,604		-182	15,500	1,510
	November	10,461	8,770	1,641	114		16,726	1,454
	December	9,983	8,397	1,544	-329	2,133	15,231	1,10
	AVERAGE	10,299	8,688	1,559	-214	234	10,201	
4004	lonuan/	10,282	8,659	1,585	-342	1,085	16,726	1,430
1984	January	10,410	8,726	1,629	186	-1,353	15,389	1,464
	February	10,354	8,718	1,588	-2	643	16,017	1,444
	March		8,688	1,616	-565	-128	15,484	1,46
	April	10,347	8,752	1,610	-616	-422	15,566	1,49
	Мау	10,415		1,612	R -95	R -77	Pt 15,687	1,50
	June*	10,398	8,743		-240	-103	15,311	1,51.
	July**	NA	8,769	NA NA	-242	-38	15,745	•
	AVERAGE	NA	8,722	NA	-242		,	

¹ Includes lease condensate.

Footnotes continued on following page.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

A negative number indicates an increase in stocks and a positive number indicates
 Stocks are totals as of end of period.
 Includes crude oil, natural gas plant production, other hydrocarbons, and alcohol.
 Includes stocks located in the Strategic Petroleum Reserve.
 Includes crude oil for storage in the Strategic Petroleum Reserve.
 Net Imports equal Imports minus Exports.
 In January 1975, 1981, and 1982, purposeur respondants were added to surroup. In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations.
 See Explanatory Note 10.

Crude Oil¹ and Petroleum Products Overview (continued)

			Imports			Exports		
		Total	Crude Oll ⁶	Petroleum Products	Total	Crude Oll	Petroleum Products	Net ⁷ Imports
				Thous	and Barrels pe	r Day		
1973		6,256	3,244	3,012	231	2	229	6,025
1974		6,112	3,477	2,635	221	3	218	5,892
1975		6,056	4,105	1,951	209	6	204	5,846
1976		7,313	5,287	2,026	223	8	215	7,090
1977	AVERAGE	8,807	6,615	2,193	243	50	193	
1978	AVERAGE	8,363	6,356	2,008	362	158		8,565
1979		8,456	6,519	1,937	472		204	8,002
1980		6,909	5,263	1,646	544	235	237	7,984
1981		5,996	4,396	1,599	544 595	287 228	258 367	6,365
4000			·			220	301	5,401
1982	January	5,332	3,693	1,639	829	238	591	4,503
	February	4,807	2,990	1,817	804	304	499	4,003
	March	4,484	2,874	1,610	882	321	561	3,602
	April	4,378	2,849	1,529	786	174	611	3,593
	May	4,811	3,309	1,503	803	262	542	4,008
	June	5,327	3,836	1,491	703	94	609	•
	July	5,890	4,248	1,642	741	229	512	4,624
	August	5,244	3,851	1,392	858	304		5,149
	September	5,414	3,636	1,778	,030 791	184	554	4,386
	October	5,306	3,670	1,636			606	4,624
	November	5,744	3,862		932	270	662	4,374
	December	4,606	3,000	1,882	786	262	524	4,958
	AVERAGE	5,113	3,488	1,605 1,625	860 815	193	667	3,746
		-,	0,400	1,020	010	236	579	4,298
1983	January	4,438	2,964	1,474	973	117	856	3,464
	February	3,726	2,267	1,459	865	262	603	2,861
	March	3,690	2,290	1,400	801	174	627	2,889
	April	4,727	3,118	1,609	809	88	721	3,918
	Мау	5,089	3,360	1,729	848	280	568	4,241
	June	5,326	3,577	1,749	774	144	630	4,552
	July	5,741	3,871	1,870	571	145	426	5,170
	August	6,159	4,227	1,933	663	172	491	
	September	6,129	4,210	1,919	684	177	507	5,496
	October	5,258	3,446	1,812	576	140		5,445
	November	5,210	3,337	1,873	679	186	436	4,682
	December	5,033	3,213	1,820	639		494	4,531
	AVERAGE	5,051	3,329	1,722	739	95	544	4,394
		•	•	1,122	139	164	575	4,312
984	January	5,347	3,029	2,318	575	153	422	4,772
	February	5,643	2,952	2,691	582	185	397	5,061
	March	5,253	3,455	1,798	840	236	605	4,413
	April	5,319	3,417	1,902	655	172	483	4,664
	May	5,916	3,927	1,989	766	219	548	5,150
	June*	R 5,304	R 3,410	R 1,893	864	222	642	
	July**	5,038	3,616	1,423	NA NA	NA NA	NA	4,440
	AVERAGE	5,401	3,405	1,997	NA	NA	NA NA	NA NA

Footnotes continued.

^{*} See Explanatory Note 9.1.

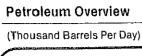
** Italics denote estimates based upon preliminary data. See Explanatory Note 8.

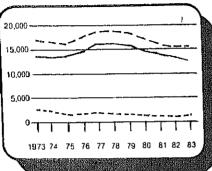
R = Revised data. NA = Not available.

Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.



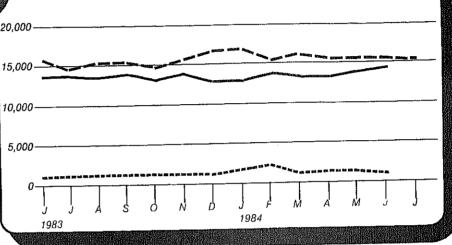


Legend - Petroleum Product Supplied

Refinery Production

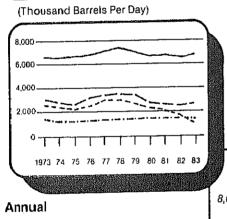
Net Petroleum Product Imports

Annual



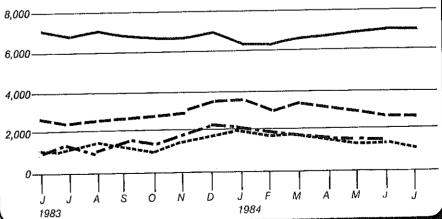
Monthly

Petroleum Products Supplied



Legend . Motor Gasoline Distillate Fuel Oil Residual Fuel Oil

1 Liquefied Petroleum Gases



Monthly

Ide Oil Supply and Disposition Jusand Barrels Per Day) Legend Refinery Inputs Domestic Crude Oil Production Net Imports 1 373 74 75 76 77 78 79 80 81 82 83 12,500 al 10,000 udes SPR Imports 7,500 5,000 2,500 Monthly de Oil Ending Stocks on Barrels) Legend Other Primary SPR Average Stock Ranget 76 77 78 79 80 81 82 83 400 300 and width of Average Stock of for other primary crude oil is on 3 years of data. Jan. 81-Dec. Explanatory Note 6. 200 100

Monthly

o

1983

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1984

Μ

					Sup	ply			
		Field Pro	oduction		Imports		Stock Wit	hdrawal ³	
		Total Domestic	Alaskan	Total	SPR4	Other	SPR ⁴	Other	Unac- counted for Crude Oll
				T	housand Ba	rrels per Da	/		
1974 A	VERAGE	9,208 8,774	198 193	3,244 3,477		3,244 3,477		11 -62	3 -25
	VERAGE VERAGE	8,375 8,132	191 173	4,105 5,287		4,105		-17	17
	VERAGE	8,245	464	5,267 6,615	21	5,287 6,594	-20	-39 -150	77 -6
	VERAGE	8,707	1,229	6,356	162	6,195	-163	84	-57
	VERAGE	8,552	1,401	6,519	67	6,452	-67	-81	-11
1980 A	VERAGE	8,597	1,617	5,263	44	5,219	-45	-52	34
1981 A	VERAGE	8,572	1,609	4,396	256	4,141	-336	6 46	83
1982 Jar		8,509	1,705	3,693	170	3,523	-159	-242	101
	oruary	8,702	1,707	2,990	159	2,830	-213	-29	156
	rch 	8,667	1,696	2,874	185	2,689	-235	357	2
Apr Ma		8,591 8,683	1,691	2,849	190	2,659	-233	196	231
Jun	•	8,646	1,707 1,665	3,309	204	3,105	-176	205	111
July		8,658	1,710	3,836 4,248	105 97	3,732 4,150	-105 -97	144	133
	gust	8, 6 34	1,697	3,851	208	4, 150 3,643	-97 -208	-50 -232	-20
-	otember	8,701	1,705	3,636	139	3,497	-208 -143	-232 406	189 -210
	ober	8,701	1,706	3,670	216	3,454	-216	-332	249
Nov	vember	8,697	1,676	3,862	180	3,683	-179	-219	-124
Dec	cember	8,598	1,682	3,000	124	2,877	-125	252	35
A	VERAGE	8,649	1,696	3,488	165	3,323	-174	38	71
1983 Jan		8,697	1,732	2,964	219	2,746	-219	⁶ -280	170
	ruary	8,758	1,717	2,267	197	2,070	-197	-123	262
Mar		8,700	1,732	2,290	201	2,089	-184	267	31
Apri		8,776	1,721	3,118	205	2,913	-197	-205	98
May June		8,631 8,667	1,662	3,360	289	3,071	-293	278	169
July		8,636	1,687 1,715	3,577	190	3,387	-188	66	370
Aug		8,679	1,713	3,871 4,227	274 350	3,597	-264 -358	497	-167
	tember	8,784	1,738	4,210	309	3,876 3,901	-306 -307	-438 68	281 -30
	ober	8,771	1,733	3,446	202	3,244	-307 -201	-73	-30 44
Nov	ember	8,770	1,720	3,337	171	3,166	-135	250	34
Dec	ember	8,397	1,711	3,213	193	3,020	-252	-78	117
A۷	/ERAGE	8,688	1,714	3,329	234	3,096	-234	20	114
1984 Jane		8,659	1,741	3,029	200	2,829	-173	-169	451
	ruary	8,726	1,740	2,952	85	2,868	-96	282	487
Marc		8,718	1,740	3,455	148	3,307	-147	145	66
April		8,688	1,725	3,417	170	3,247	-1.70	-396	590
May		8,752	1,793	3,927	246	3,681	245	-371	463
June July*		8,743	1,792	R3,410	R 309	R 3,101	R -309	R 214	490
	ERAGE	8,769	1,769	3,616 2,405	<i>308</i>	3,308	-319	<i>79</i>	NA
MV	LINAGE	8,722	1,757	3,405	210	3,195	-209	-33	NA

Includes lease condensate.

Stocks are totals as of end of period.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.
4 Strategic Petroleum Reserve.
5 Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
6 Stocks of Alaskan crude oil in transit were included beginning in January 1981. Stock withdrawals are calculated using new basis stock levels. See Explanatory Notes 10 and 11.

Footnotes continued on following page.

Crude Oil¹ Supply and Disposition (continued)

	Supply		Dispo	sition	T	E	nding Stock	S ²
	Crude Used Directly ⁵	Crude Losses	Refinery Inputs	Exports	Products Supplied ⁵	Total Crude Oil	SP,R4	Other Primary
		Thous	and Barrels p	er Day		N	lillion Barrel	3
973 AVERAGE	-19	13	12,431	2	NA	242		242
974 AVERAGE	-15	13	12,133	3	NA	265		265
975 AVERAGE	-17	13	12,442	6	NA	271		271
976 AVERAGE	-18	15	13,416	8	NA	285		285
977 AVERAGE	-14	16	14,602	50	NA NA	348	49	
978 AVERAGE	-14	16	14,739	158	NA NA		7	340
979 AVERAGE	-13	16				376	67	309
			14,648	235	NA	430	91	339
	-13	15	13,481	287	NA	⁶ 466	108	⁶ 358
981 AVERAGE	-58	5	12,470	228	NA	594	230	363
982 January	-63	3	11,599	238	NA	606	235	37 1
February	-64	2	11,236	304	NA	613	241	372
March	-63	5	11,276	321	NA	609	249	361
April	-65	3	11,392	174	NA	610	256	355
May	-62	3	11,806	262	NA	609	261	348
June	-60	7	12,494	94	NA	608	264	344
July	-60	3	12,446	229	NA	613	267	
August	-57	2	11,871	304	NA NA			346
September	-56	4	12,146			626	274	353
October	-51	2		184	NA	619	278	341
			11,749	270	NA	636	285	351
November	-51	1	11,724	262	NA	648	290	358
December AVERAGE	-53	1	11,514	193	NA	⁶ 644	294	6 350
AVENAGE	-59	3	11,774	236	NA			
83 January	NA	2	11,143	117	71	660	301	360
February	NA	3	10,633	262	71	669	306	363
March	NA	2	10,859	174	70	667	312	355
April	NA	2	11,433	88	68	679	318	361
May	NA	1	11,800	280	63	679	327	353
June	NA	(^S)	12,284	144	64	683	332	351
July	NA	`´2	12,360	145	65	676	341	335
August	NA	1	12,152	172	64	700	352	
September	NA	1	12,482	177	66	708		349
October	NA	1	11,782				361	347
November	NA NA	2		140	63	716	367	349
December			12,004	186	64	713	371	341
	NA	1	11,234	95	67	723	379	344
AVERAGE	NA	2	11,685	164	66			
84 January	NA .	1	11,579	153	64	733	384	348
February	NA	1	12,100	185	65	727	387	340
March	NA	2						336
April		(^S)						348
May								
June*								359
								R 353
AVERAGE						110	423	353
April May June* July**		NA NA NA NA AGE NA	NA (⁸) NA 2 NA 2 NA NA AGE NA NA	NA 2 11,936 NA (S) 11,893 NA 2 12,243 NA 2 R 12,263 NA NA 12,210 AGE NA NA 12,031	NA 2 11,936 236 NA (S) 11,893 172 NA 2 12,243 219 NA 2 R 12,263 222 NA NA NA 12,210 NA AGE NA NA 12,031 NA	NA 2 11,936 236 62 NA (S) 11,893 172 64 NA 2 12,243 219 62 NA 2 R 12,263 222 61 NA NA 12,210 NA NA AGE NA NA 12,031 NA NA	NA 2 11,936 236 62 728 NA (S) 11,893 172 64 744 NA 2 12,243 219 62 764 NA 2 R12,263 222 61 R 766 NA NA 12,210 NA NA 776 AGE NA NA 12,031 NA NA	NA 2 11,936 236 62 728 392 NA (S) 11,893 172 64 744 397 NA 2 12,243 219 62 764 404 NA 2 R 12,263 222 61 R 766 R 414 NA NA 12,210 NA NA 776 423 AGE NA NA 12,031 NA NA

Footnotes continued.

^{(\$) =} Less than 500 barrels per day.

* See Explanatory Note 9.2.

** Italics denote estimates based upon preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available.

Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

		İ			I	mports fro	m OPEC	Sources1			.,		
		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indo- nesia	Iran	Nigeria	Vene- zuela	Other OPEC ²	Total OPEC	Total Arab OPEC ³	
			Thousand Barrels per Day										
1973	AVERAGE	136	164	486	71	213	223	459	1,135	106	2,993	915	
1974	AVERAGE	190	4	461	74	300	469	713	979	88	3,280	752	
1975	AVERAGE	282	232	715	117	390	280	762	702	122	3,601	1,383	
976	AVERAGE	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424	
977	AVERAGE	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185	
978	AVERAGE	649	654	1,144	385	573	555	919	645	226	5,751	2,963	
979	AVERAGE	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056	
980	AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,551	
981	AVERAGE	311	319	1,129	81	366	0	620	406	90	3,323	1,848	
982 .	lanuary	254	161	877	111	289	0	663	376	128	2,859	1,403	
	ebruary	139	92	693	89	244	0	584	355	102	2,297	1,054	
	Aarch	91	37	555	155	200	0	522	399	91	2,051	860	
	pril	85	0	511	122	215	0	427	426	85	1,871	740	
	day	179	ő	601	116	236	Ó	222	422	54	1,830	897	
	une	115	ŏ	593	94	215	72	537	361	110	2,096	820	
	uly	159	ő	660	108	327	69	910	356	95	2,685	965	
	ugust	181	ő	489	133	271	27	574	299	133	2,107	818	
	ieptember	179	Ö	432	57	191	21	477	518	69	1,943	677	
	october	249	7	494	61	242	108	313	504	106	2,084	810	
	lovember	247	14	489	47	283	34	479	528	115	2,235	797	
	ecember	155	0	237	12	265	88	462	399	73	1,690	421	
L	AVERAGE	170	26	552	92	248	35	514	412	97	2,146	854	
002 F	anuary	207	0	282	47	255	43	186	337	54	1,412	537	
	ebruary	115	0	202	47 9		43	92			1,068		
	larch	63	0	103	0	217 138	0	121	393 440	28 201	1,066	338	
	pril	227	0	162	(ª)	210	0	186				183	
	lay	286	0	122	12	405		385	523	125	1,432	389	
	nue	300	0	188	40		37 38	467	455 335	69	1,771	420	
	ıly	283	0	182	64	466		40/		138	1,973	528	
	ugust	203 378	0	448	52	464	112	525	434	187	2,251	606	
	eptember	423	0			433	213	464	511	230	2,728	903	
	eptember	423 261	0	587	21	501	86	324	432	221	2,595	1,084	
	ovember		0	638	16	368	12	307	337	169	2,108	938	
	ecember	184 144		545	56	302	21	215	452	135	1,910	807	
	AVERAGE	144 240	0 0	569 33 7	45 30	294 338	9 48	329 302	415 422	163 144	1,969 1,862	826 632	
n p.a. 1.	2011201	040											
	anuary	242	0	463	114	278	0	243	547	51	1,939	828	
	ebruary	348	0	324	33	267	0	244	481	174	1,871	723	
	iarch	283	0	307	112	284	67	260	354	127	1,792	71 7	
	pril	280	0	320	95	221	0	288	581	158	1,944	734	
	ay	456	0	329	240	480	0	289	621	242	2,657	1,131	
	ine	284	0	411	46	415	0	243	574	139	2,112	806	
	AVERAGE	316	0	359	108	325	11	261	526	148	2,055	825	

Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.
 Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
 Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Footnotes continued on following page.

Crude Oil and Petroleum Product Imports (continued)

					1	mports fror	n Non-OPE	C Sources	4				
		Baha- mas	Canada	Mexico	Nether- lands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico	Virgin Islands	Other Non OPEC	Total Non OPEC	Total Import	
						Thousa	nd Barrels	per Day	I	<u> </u>	I	. <u> </u>	
1973	AVERAGE	174	1,325	16	585	255	15	99	329	465	3,263	6,256	
1974	AVERAGE	164	1,070	8	511	251	8	90	391	340	2,832	6,112	
1975	AVERAGE	152	846	71	332	242	14	90	406	300	2,454	6,056	
1976	AVERAGE	118	599	87	275	274	31	88	422	353	2,247	7,313	
1977	AVERAGE	171	517	179	211	289	126	105 、	466	550	2,614	8,807	
1978	AVERAGE	160	467	318	229	253	180	94	429	484	2,613	8,363	
1979	AVERAGE	147	538	439	231	190	202	92	431	548	2,819	8,456	
1980	AVERAGE	78	455	533	225	176	176	88	388	491	2,609	6,909	
1981	AVERAGE	74	447	522	197	133	375	62	327	534	2,672	5,996	
	anuary	58	513	425	179	106	346	62	334	452	2,474	5,332	
	ebruary	67	537	476	221	120	181	38	362	508	2,510	4,807	
	larch	43	437	503	189	118	294	62	307	480	2,433	4,484	
	pril	82	360	476	184	166	247	36	266	690	2,507	4,378	
	lay	77	419	766	152	95	516	47	302	607	2,981	4,811	
	une	32	481	797	148	129	557	58	322	708	3,231	5,327	
	Jly	64	536	783	158	118	433	38	376	698	3,204	5,890	
	ugust	80	443	853	145	106	520	24	317	650	3,137	5,244	
	eptember	92	493	897	195	89	631	51	278	746	3,472	5,414	
	ctober	45	459	682	148	109	666	52	262	801	3,222	5,306	
	ovember	51	553	860	212	90	623	81	334	706	3,508	5,744	
	ecember	88	561	689	174	102	438	48	336	480	2,916	4,606	
4	AVERAGE	65	482	685	175	112	456	50	316	627	2,968	5,113	
983 Ja	anuary	68	534	849	228	73	314	40	299	621	3,026	4,438	
Fε	bruary	92	586	722	183	81	193	50	192	558	2,658	3,726	
M	arch	86	488	775	187	78	240	43	162	565	2,624	3,720	
	oril	174	454	981	216	85	421	20	183	759	3,295	4,727	
Ma	ay	135	518	944	153	108	484	42	235	699	3,318	5,089	
Ju	ne	137	586	830	173	120	440	48	262	757	3,353	5,326	
Ju	ly	69	634	849	198	107	369	37	364	864	3,490	5,741	
Αι	igust	144	542	906	197	90	461	40	313	738	3,490	6,159	
Se	ptember	148	533	849	261	82	475	33	307	845			
Oc	ctober	171	532	771	172	106	414	48	357	580	3,534	6,129	
No	ovember	148	556	726	144	110	334	55	427		3,151	5,258	
D€	cember	127	604	710	153	113	429	22	278	801 628	3,300	5,210	
P	VERAGE	125	547	826	189	96	382	40	282	701	3,063 3,189	5,033 5,05 1	
9 84 Ja		152	624	705	277	54	382	53	390	770	•		
	bruary	142	620	747	288	77	338	58	418	772 1,083	3,408	5,947	
	arch	88	726	707	169	93	400	34			3,772	5,643	
Аp	ril	88	691	859	207	91	282	37	247 257	996	3,460	5,253	
Ma	ıy	31	715	675	192	57	418	37 38		863	3,375	5,319	
Jur		50	499	732	234	104	318	53	336	796	3,259	5,916	
Δ	VERAGE	92	647	737	227	79	357	45	268 319	934 905	3,192 3,408	5,304 5,463	

(s) = Less than 500 barrels per day.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included. Total may not equal sum of components due to independent rounding.

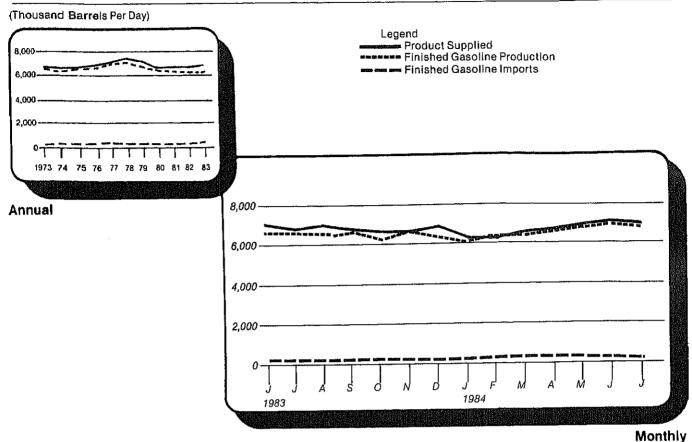
Geographic coverage: The 50 United States and the District of Columbia.

Source: See the last page of this section.

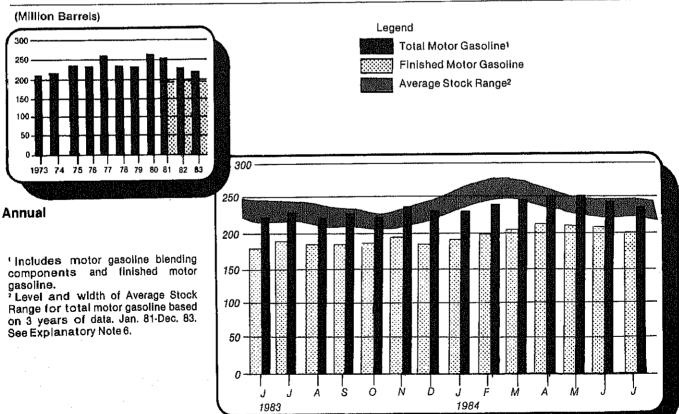
Footnotes continued.

Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.

Motor Gasoline Supply and Disposition



Motor Gasoline Ending Stocks



Finished Motor Gasoline Supply and Disposition

			Supply			Disp	osition		Ending	Stocks [†]
		Total Produc-		Stock With-		Pi	oducts Suppli	ed	Total Motor	Finished Motor
		tion	Imports ²	drawal ^{2 3}	Exports	Total	Unleaded ⁴	Unleaded	Gasoline ⁵	Gasoline
				Thousand Ba	rrels per Day			Percent of Total	Millon	Barrels
197		6,535	134	9	4	6,674	NA	NA	209	***************************************
197		6,360	204	-24	2	6,537	NA	NA	⁶ 218	
197		6,520	184	6 ~28	2	6,675	NA	NA	235	
1970	6 AVERAGE	6,841	131	10	3	6,978	NA	NA	231	
1977		7,033	217	-72	2	7,177	1,976	27,5	258	
1976	8 AVERAGE	7,169	190	54	1	7,412	2,521	34.0	238	
1979	AVERAGE	6,852	181	2	(s)	7,034	2,798	39.8	237	
1980) AVERAGE	6,506	140	-66	1 1	6,579	3,067	46.6	6 261	
1981	1 AVERAGE ⁷	6,405	157	⁶ 28	2	6,588	3,264	49.5	253	
1982	2 January	6,167	128	-316	18	5,961	3,067	51,5	261	213
	February	5,899	133	172	8	6,196	3,210	51.8	257	208
	March	5,994	183	334	44	6,466	3,358	51.9	247	198
	April	6,095	185	650	33	6,897	3,495	50.7	221	179
	Мау	6,319	182	177	23	6,655	3,415	51.3	214	173
	June	6,754	230	-134	14	6,835	3,565	52.2	219	
	July	6,768	225	-178	24	6,790	3,577	52.7	226	177
	August	6,419	291	-81	16	6,614	3,526	53,3	227	183
	September	6,527	223	-198	22	6,531	3,404			185
	October	6,262	185	-42	15	6,391	3,404 3,351	52.1	234	191
	November	6,273	211	101	11	6,574		52.4	234	192
	December	6,542	178	-165	7	6,549	3,451	52.5	230	189
	AVERAGE	6,338	197	25	20	6,539	3,485 3,409	53.2 52.1	⁶ 235	⁶ 194
1983	January	6,065	153	⁶ –167	(s)	6,051	3,364	55,6	OE0	007
	February	5,848	128	24	(s)	6,000	3,264	54.4	250	207
	March	5,906	186	7 6 8	23	6,836	3,622	53,0	250	207
	April	6,201	255	-3	1	6,452	3,492	54.1	223	183
	May	6,397	305	-83	i	6,617	3,558	53.8	221	183
	June	6,655	277	84	22	6,994	3,792	54.2	223	185
	July	6,707	302	-225	18	6,765	3,746	55,4	223	183
	August	6,537	250	161	13	6,936	3,836	55,4 55,3	231	190
	September	6,611	279	-149	14	6,727			226	185
	October	6,188	330	72	2	6,588	3,691	54.9	229	189
	November	6,634	269	-298	2	6,603	3,711	56.3	227	187
	December	6,308	224	339	25	6,846	3,692	55.9	236	196
	AVERAGE	6,340	247	45	10	6,622	3,966 3,647	57,9 55.1	222	186
1984	January	6,037	233	-1	1	6,268	3,606		000	ا معاد
	February	6,320	303	-384	2	6,237		57.5	225	186
	March	6,375	343	-197	9	6,512	3,585	57.5	237	197
	April	6,528	308	-153	(⁸)		3,747	57.5	243	203
	May	6,650	329	-106	(°) (s)	6,682	3,854	57.7	248	207
	June*	R 6,620	R 272	FI 217		6,873	3,990	58,1	253	211
	July**	6,537	231	319	17 NA	R 7,092	4,210	59.4	R 245	R 204
	AVERAGE	6,438	288	-41	NA NA	7,087	NA	NA	236	198

Stocks are totals as of end of period.
 Beginning in 1981, excludes blending components.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.

⁴ Includes gasohol.

Includes gasono.
Includes motor gasoline blending components.
In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

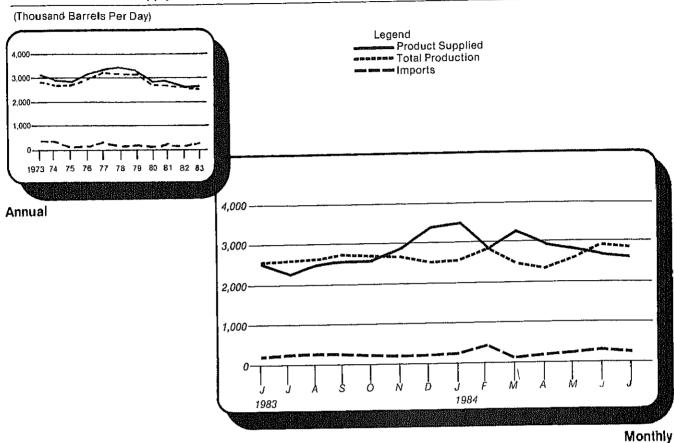
^{*} See Explanatory Note 9.3.

** Italics denote estimates based upon preliminary data. See Explanatory Note 8.

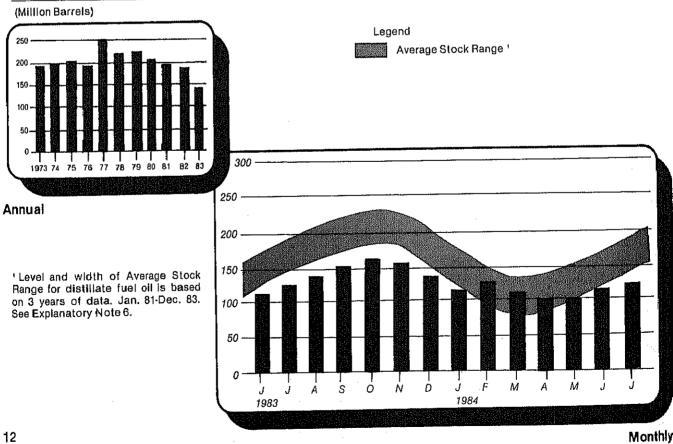
R = Revised data. NA = Not available. (s) = Less than 500 barrels per day. Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding. Source: See the last page of this section.

Distiliate Fuel Oil Supply and Disposition



Distillate Fuel Oil Ending Stocks



			Sı	ipply		Dispe	osition	Ending Stocks ¹
		Total Production	Imports	Stock Withdrawai ²	, Crude Used Directly ³	Exports	Products Supplied ³	
				Thousand Ba	rels per Day		-1	Million Barrels
1973		2,822	392	-115	2	9	3,092	196
1974		2,669	289	-9	2	2	2,948	4 200
1975	AVERAGE	2,654	155	4 40	2	1	2,851	209
1976	AVERAGE	2,924	146	62	1	1	3,133	186
1977	AVERAGE	3,278	250	-176	1	1	3,352	250
1978	AVERAGE	3,167	173	93	1	3	3,432	216
1979	AVERAGE	3,153	193	-34	1	3	3,311	229
1980		2,662	142	64	1	3	2,866	4 205
1981	AVERAGE ⁵	2,613	173	4 38	10	5	2,829	192
1982	January	2,591	97	876	10	90	3,484	164
	February	2,427	132	605	1 1	90	3,085	147
	March	2,288	48	682	10	84	2,945	126
	April	2,358	59	612	13	64	2,978	108
	May	2,618	74	-183	10	75	2,444	114
	June	2,729	102	-335	10	55	2,452	124
	July	2,734	125	-789	11	24	2,058	148
	August	2,507	80	-339	10	40	2,218	159
	September	2,657	61	-85	12	139	2,507	161
	October	2,838	91	-289	8	66	2,581	170
	November	2,860	145	-514	8	24	2,475	186
	December	2,655	109	225	10	143	2,8 5 5	4 179
	AVERAGE	2,606	93	35	10	74	2,671	. 119
1983	January	2,321	68	4 580	NA	173	2.797	168
,	February	2.135	59	691	NA	105	•	
	March	1,993	42	971	NA	59	2,780	148
	April	2,171	73	500	NA	47	2,947 2,697	118 103
	May	2.444	147	→186	NA NA	47 50		
	June	2,546	179	-161	NA	40	2,354	109
	July	2,604	267	-546	NA NA	55	2,524	114
	August	2,615	301	-379	NA NA	43	2,270 2.495	131 142
	September	2,739	259	-386	NA NA	43 37		
	October	2,681	260	-276	NA NA	57 55	2,575	154
	November	2,680	203	-276 45	NA NA	54	2,611	163
	December	2,522	221	676			2,874	161
	AVERAGE	2,456	174	124	NA NA	54 64	3,365 2,690	140
1004	lonuar.	0.505	A=A				•	
1704	January Espansi	2,585	270	676	ŅĄ	40	3,490	119
	February	2,864	458	-439	NA	41	2,842	132
	March	2,480	115	727	NA	66	3,256	110
	April	2,347	220	393	NA	32	2,929	98
	May	2,633	252	-10	NA	48	2,827	98
	June*	R 2,879	R 266	R -490	NA	53	R 2,602	R113
	July**	2,797	190	<i>-368</i>	NA	NA	2,577	125
	AVERAGE	2,653	251	76	NA	NA	2,934	

Stocks are totals as of end of period.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil

used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.

⁵ Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

^{*} See Explanatory Note 9.4.

** Italics denote estimates based upon preliminary data. See Explanatory Note 8.

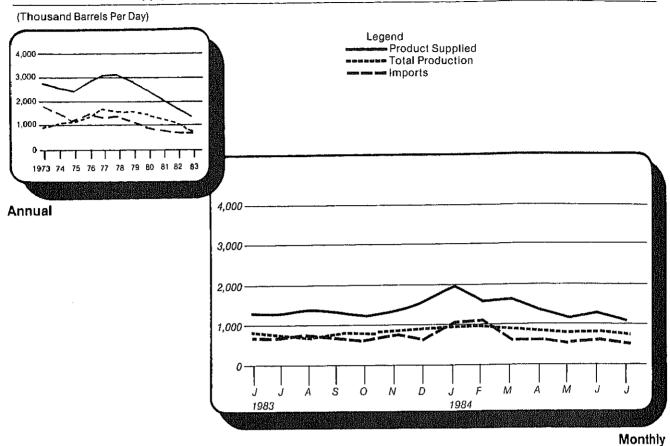
R == Revised data. NA == Not available. (s) == Less than 500 barrels per day.

Note: Geographic coverage is the 50 United States and the District of Columbia.

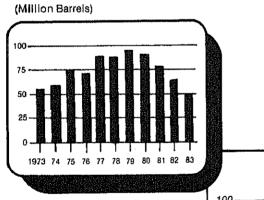
Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

Residual Fuel Oil Supply and Disposition



Residual Fuel Oil Ending Stocks

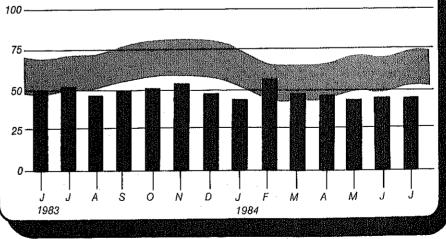


Legend

Average Stock Range ¹

Annual

¹ Level and width of Average Stock Range for residual fuel oil based on 3 years of data, Jan. 81-Dec. 83. See Explanatory Note 6.



14

Monthly

			St	ıpply		Dispo	osition	Ending Stocks ¹
		Total Produc- tion	Imports	Stock Withdrawal ²	Crude Used Directly ³	Exports	Products Supplied ³	
			<u> </u>	Thousand Bai	rels per Day			Million Barrels
1973	AVERAGE	971	1,853	5	17	23	2,822	53
1974		1,070	1,587	-17	13	14	2,639	4 60
1975	AVERAGE	1,235	1,223	4 2	15	15	2,462	74
1976		1,377	1,413	5	17	12	2,801	72
1977		1,754	1,359	-48	13	6	3,071	90
1978		1,667	1,355	-1	13	13	3,023	90
1979		1,687	1,151	-15	12	9	2,826	96
1980		1,580	939	10	12	33	2,508	4 92
1981		1,321	800	4 37	48	118	2,088	78
1901	AVENAGE	1,321	800	7 37	40	110	2,000	76
1982	January	1,235	831	301	53	235	2,165	69
	February	1,186	956	363	53	213	2,344	58
	March	1,123	912	12	53	197	1,903	58
	April	1,166	788	150	52	234	1,923	54
	May	1,128	742	-172	52	191	1,560	59
	June	1,074	652	-57	50	217	1,501	61
	July	1,028	657	-57 56	49	239	1,550	59
	August	965	551	203	47	235	1,531	53
	September					148		62
	October	1,008	872	-306	44		1,470	
		955	783	-57	43	234	1,490	64
	November	989	837	-94	43	182	1,591	66
	December	989	747	6	43	186	1,598	4 66
	AVERAGE	1,070	776	32	48	209	1,716	
1983	January	972	691	4 258	NA	294	1,626	61
,,,,	February	857	647	257	NA	191	1,570	53
	March	835	686	227	NA	169	1,579	46
	April	941	753	-10	NA NA	310	1,374	47
	May	936	738	-10 -141	NA	190	1,342	51
	June	828	677	-141 36	NA NA	218		50
	July	769	684			90	1,323	
	,	710		-64	NA		1,299	52
	August		739	115	NA	165	1,400	48
	September	826	706	-47	NA	134	1,351	50
	October	807	638	-50	NA	153	1,243	51
	November	845	780	-97	NA	167	1,362	54
	December	897	649	182	NA	141	1,587	49
	AVERAGE	852	699	55	NA	185	1,421	
109/	January	953	1,061	110	NI A	4.54	1 001	4=
1504	February	1,003		119	NA	151	1,981	45
	March		1,107	-420	NA	87	1,602	58
		887	633	321	NA	204	1,637	48
	April	840	637	9	NA	130	1,357	47
	May	829	554	35	NA	200	_ 1,218	_ 46
	June*	R 841	R 676	R-17	NA	176	R 1,324	R 47
	July**	<i>749</i>	<i>551</i>	-84	NA	NA	1,043	47
	AVERAGE	871	743	-1	NA	NA	1,451	

¹ Stocks are totals as of end of period.

5 Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 Periodical in January 1994, and 1984, numerous respondents were added to surveys affecting stocks.

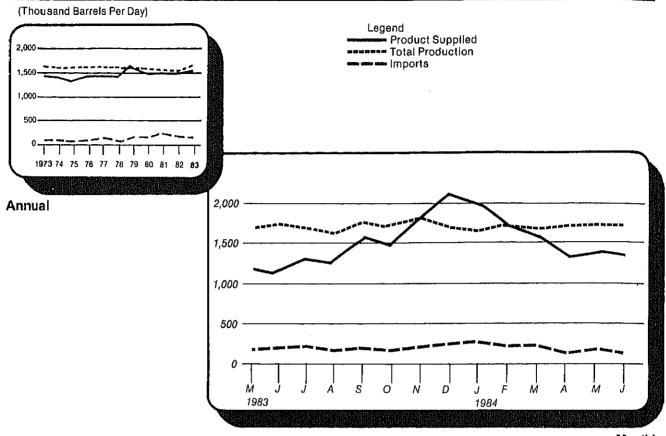
See Explanatory Note 9.4.

^{**} Italics denote estimates based upon preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available. (s) = Less than 500 barrels per day.

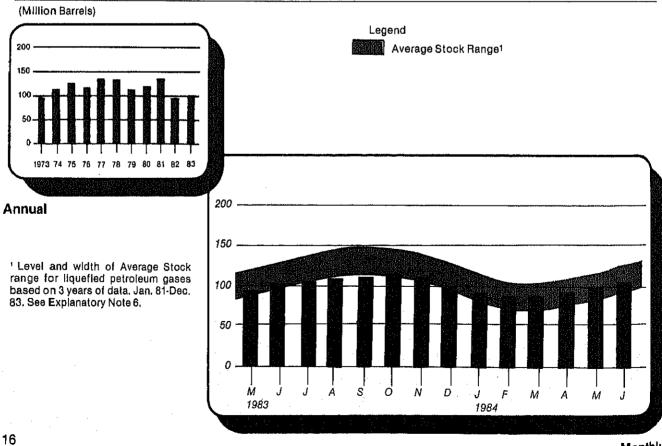
Note: Geographic coverage is the 50 United States and the District of Columbia.

Liquefied Petroleum Gases Supply and Disposition



Liquefied Petroleum Gases Ending Stocks





Liquefied Petroleum Gases¹Supply and Disposition

		Supply			Disposition		Ending Stocks ²
	Total eduction	Imports	Stock Withdrawal ³	Refinery Inputs	Exports	Products Supplied	
		·	Thousand Bar	rrels per Day			Million Barrels
AVERAGE	1,600	132	-35	220	27	1,449	99
AVERAGE	1,565	123	-38	220	25	1,406	⁴ 113
AVERAGE	1,527	112	4 -35	246	26	1,333	125
AVERAGE	1.535	130	24	260	25	1,404	116
AVERAGE	1,566	161	-55	233	18	1,422	136
AVERAGE	1,537	123	12	239	20	1,413	132
		217	70	236	15	1,592	111
AVERAGE	1,556		-27	233	21	•	4 120
AVERAGE	1,535	216				1,469	
AVERAGE	1,571	244	4 –18	289	42	1,466	135
January	1,565	314	443	391	67	1,863	121
February	1,466	291	243	327	51	1,621	114
March	1,544	223	- 211	289	74	1, 615	108
April	1,506	188	98	257	77	1,458	105
May	1,565	186	-71	234	43	1,403	107
June	1,515	192	-86	26 2	106	1,254	109
July	1,476	227	-13	253	37	1,399	110
August	1,511	125	-45	254	61	1,276	111
September	1,538	247	37	274	85	1,463	110
October	•	194	97	306	81	1,421	107
	1,517		175	363	37	1,583	102
November	1,542	267					4 94
December	1,580	258	256	395	56	1,642	" 94
AVERAGE	1,528	226	111	300	65	1,499	
January	1,611	240	4 520	313	118	1,939	86
February	1,600	305	128	244	76	1,713	82
March	1,543	166	-9	197	127	1,377	82
April	1,607	124	-156	198	116	1,260	87
May	1,613	167	-225	207	84	1,263	94
June	1,664	172	-334	203	59	1,241	104
July	1.656	191	-221	217	55	1,354	111
August	1,586	160	-199	229	29	1,289	117
September	1,705	178	-30	236	86	1,531	118
October	1,688	160	-81	268	32	1.467	120
	1,785	180	70	362	33	1,640	118
November			70 575	363	66	2,038	4 101
December	1,645	247			73	1,509	. 101
AVERAGE	1,642	190	4	253	73	1,509	
January	1,610	269	4 470	333	23	1,993	93
February	1,690	237	146	323	41	1,708	89
March	1,685	241	12	289	68	1,581	89
April	1,711	155	-170	253	54	1,389	94
May	1,709	211	-221	244	42	1,412	101
	1,714						106
	,						,
June* AVERAGE		1,714 1 ,686	•	,	,	,, ,	,, ,

4 In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10. Note: Geographic coverage is the 50 United States and the District of Columbia.
Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

Includes ethane, propane, normal butane, and isobutane.

Beginning in January 1984, unfractionated stream is reported by individual product.

² Stocks are totals as of end of period.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Other Petroleum Products¹ Supply and Disposition

			Supply			Disposition		Ending Stocks ²
		Total Production	Imports	Stock Withdrawai ³	Refinery Inputs	Exports	Products Supplied	
				Thousand Bar	rrels per Day			Million Barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	208
1974	AVERAGE	3,558	432	-28	665	174	3,123	4 218
1975	AVERAGE	3,424	277	4 -2	537	160	3,002	219
1976	AVERAGE	3,643	206	-5	524	175	3,145	220
1977	AVERAGE	3,912	205	-27	514	165	3,410	230
1978	AVERAGE	4,046	166	14	492	167	3,568	225
1979	AVERAGE	4,153	195	-37	352	209	3,749	238
1980	AVERAGE	3,956	210	-23	311	198	3,634	4 247
1981	AVERAGE	3,739	226	4 46	723	199	3,088	282
1982	January	3,171	269	-7	624	180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,466	243	-191	725	161	2,631	293
	April	3,408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3,547	315	123	812	216	2,954	281
	July	3,660	408	-1	856	187	3,023	281
	August	3,583	346	217	743	202	3,201	274
	September	3,533	375	105	749	213	3,051	271
	October	3,529	383	244	915	266	2,976	264
	November	3,498	423	-28	837	269	2,786	264
	December	3,324	313	366	885	275	2,842	4 253
	AVERAGE	3,453	334	80	787	211	2,869	230
1983	January	3,194	322	4 -419	588	271	2,239	271
	February	3,229	321	12	673	232	2,658	270
	March	3.381	319	-147	572	249	2,732	275
	April	3,299	404	-24	592	247	2,840	276
	May	3,405	374	35	705	242	2,866	275
	June	3,610	444	96	717	292	3,144	272
	July	3,636	425	148	735	209	3,265	267
	August	3,695	482	30	668	242	3,297	266
	September	3,792	497	-6	788	236	3,255	266
	October	3,578	424	-107	711	195	2,990	270
	November	3,568	441	95	912	238	2,957	267
	December	3,123	479	361	883	257	2,823	⁴ 256
	AVERAGE	3,460	411	6	712	242	2,923	250
1984	January	3,391	486	4 -177	561	207	2,931	253
	February	3,582	586	-256	751	225	2,935	261
	March	3,510	466	-218	530	258	2,969	268
	April	3,584	582	-207	627	268	3,063	274
	May	3,683	642	-118	775	257	3,175	277
	June*	3,863	521	404	1,229	343	3,213	265
	AVERAGE	3,601	547	-97	743	259	3,048	200

Includes pentanes plus, other hydrocarbons and alcohol, unfinished oils, gasoline blending components and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.
 Stocks are totals as of end of period.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 See Explanatory Note 9.6.
 Note: Geographic coverage is the 50 United States and the District of Columbia.

Sources

- 1973 through 1976: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual.
- 2. 1977 through 1980: Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, and unleaded gasoline data from Monthly Petroleum Statistics Report.
- 3. January 1981 through December 1983: EIA, Petroleum Supply Annual.
- 4. January 1984 through June 1984: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly.* (See Explanatory Notes 9.1 through 9.6).
- 5. July 1984: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- 6. January 1984 through July 1984: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey. (See Explanatory Note 3).

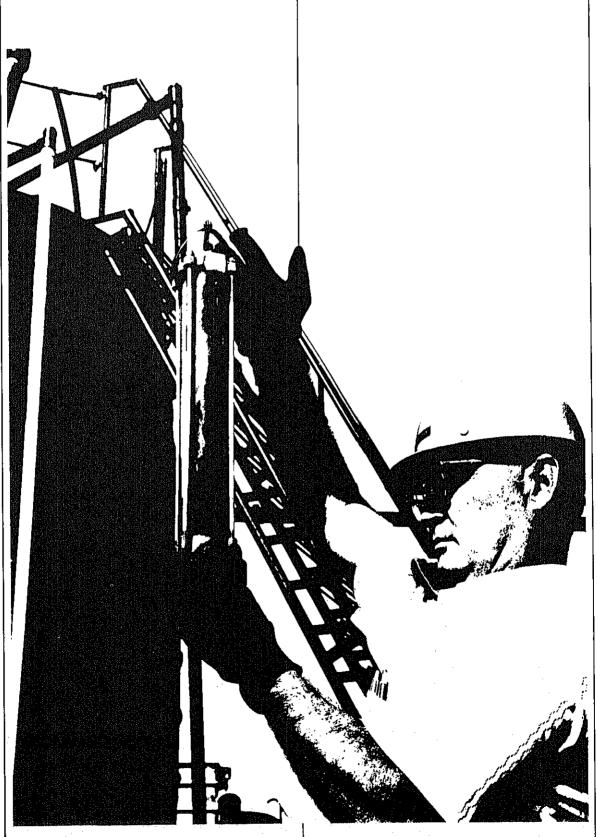




Table 1. U.S. Petroleum Balance, June 1984

	Current		Year-to	o-date
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Crude Oil (Including Lease Condensate)				
Field Production				
(1) Alaska	E 53,769	1,792	E 319,458	1,755
(2) Lower 48 States	€ 208,521	6,951	E 1,266,490	6,959
(3) Total U.S.	E 262,290	8,743	E 1,585,948	8,714
Net Imports				
(4) Imports (Gross Excluding SPR)	93,044	3,101	577,950	3,176
(5) SPR Imports	9,267	309	35,207	193
(6) Exports	6,665	222	35,993	198
(7) Imports (Net Including SPR)	95,646	3,188	577,165	3,171
Other Sources				
(8) SPR Withdrawal (+) or Addition (-)	-9,257	-309	-34,646	-190
(9) Other Stock Withdrawal (+) or Addition (-)	6,421	214	-9,516	-52
(10) Product Supplied and Losses	-1,909	-64	-11,730	~6 4
(11) Unaccounted for 1	14,710	490	76,878	422
(12) Total Other Sources	9,965	332	20,986	115
(13) Crude Input to Refineries	367,901	12,263	2,184,099	12,001
(13) = (3) + (7) + (12)				
Natural Gas Plant Liquids (NGPL)				
(14) Field Production	48,374	1,612	292,381	1,606
(15) Net Imports 2	863	29	7,044	39
(16) Stock Withdrawal (+) or Addition (-) 2	-476	~16	-1,756	-10
(17) Total NGPL Supply	48,761	1,625	297,669	1,636
Other Liquids				
Unfinished Oils and Gasoline Blending Components, Total				
(18) Stock Withdrawal (+) or Addition (-)	12,204	407	-7,712	-42
(19) Imports	9,060	302	58,249	320
(20) Other Hydrocarbons and Alcohol New Supply (Field Production)	1,261	42	8,470	47
(21) Refinery Processing Gain 1	16,010	534	100,405	552
(22) Crude Oil Product Supplied	1,842	61	11,468	63
(23) Total Other Liquids	40,377	1,346	170,880	939
(23) = (18) through (22)				
(24) Total Production of Products 3	457,039	15,235	2,652,648	14,575
Alab Jamasia of Delinad Denducta 2				
Net Imports of Refined Products 3 (25) Imports (Gross)	46,799	1,560	315,369	1,733
(26) Exports	19,180	639	93,594	514
(27) Imports (Net)	27,619	-921	221,775	1,219
	27,010	-521	201,113	1,219
(28) Total New Supply of Products	484,658	16,155	2,874,423	15,794
(29) Refined Products Stock Withdrawal (+) or Addition (-) 3	-14,052	-468	4,555	25
(30) Total Petroleum Products Supplied for Domestic Use	170.605	45 002		
(30) = (28) + (29)	470,605	15,687	2,878,978	15,819
(31) Finished Motor Gasoline	010 767	7.000	4 000 000	0.015
32) Distillate Fuel Oil	212,767	7,092	1,203,308	6,612
33) Residual Fuel Oil	78,069 39,712	2,602	545,117	2,995
34) Liquefied Petroleum Gases	•	1,324	276,778	1,521
35) Other 4	41,824 96,391	1,394	287,579	1,580
36) Crude Oil	1,842	3,213	554,728	3,048
37) Total Product Supplied	470,605	61	11,468	63
(37) = (31) through (36)	470,003	15,687	2,878,978	15,819
Ending Stocks, All Oils	•			
38) Crude Oil and Lease Condensate (Excluding SPR)	352,692		352,692	
39) Strategic Petroleum Reserve (SPR)	413,735		413,735	70-
40) Unlinished Oils	110,781		110,781	
41) Gasofine Blending Components 5	41,951			
42) Pentanes Plus	10,521		41,951	
43) Finished Refined Products 3	572,495		10,521	
44) Total Stocks	1,502,175		572,495	
	1,006,170		1,502,175	

Note: Total may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes 1, 2 and 9.7.

<sup>A balancing item.
Includes products in the pentanes plus category only.
For products included see Explanatory Note 9.7.
Includes pentanes plus, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil and liquefied petroleum gases.
Includes other hydrocarbons and alcohol.

Estimated.

Not Applicable.
Note: Total may not equal sum of components due to independent roundit</sup>

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			Supply							
				1000				Disposition		
Commodity	Field	Refinery		W. T.	Unac-]]	
	tion tion	Produc-	Imports	drawal (+) or	For Chirds	Crude	Refinery	Exports	Products	Ending
				Addi- tion (-)	O DIL	Sasson	nputs	3	Supplied	Stocks
Crude Oil (including lease condensate)	T 262 200	•								
	067,202 -	0	102,311	-2,836	14,710	29	367 901	Ü	•	
Natural Gas Liquids and LRGs	48 191	12 027				;	100	0,000	1,842	766,427
rentanes Plus	8 834	12,000	9,579	-6,137	0	0	13.300			
Liquetted Petroleum Gases		0 65	941	476	0		6,000	/eg';	44,844	116,729
Ethane		//0'7	4,738	-5,661	0	· c	2,501	2 1	3,020	10,521
Propane		432	1,761	110	c	•	20.	6/5,1	41,824	106,208
Normal Butane	70,40	8,604	1,410	-4,476	· c	> <	n (157	16,979	21,202
Isobutane	900'9	3,059	948	-523	c	> c	707	0,010	19,878	55,326
	0000	<u> </u>	619	-772	0		000	333	5,709	19,703
Other Liquids	1				٠	>	0000	9	-742	2,677
Other Hydrocarbons and Alcohol	1,261	0	9,060	12.204	c	•	į			
Unfinished Oils	1,261	0	0	9		5 (30,670	0	-8,145	152,732
Motor Gasoline Rlending Company	0	0	6.875	11 440		>	1,199	0	C	330
Aviation Gasolino Blooding	0	0	2 185	767	.	0	26,344	C	000	110 707
describe plending Components	0	• •	; ?	è 8	0	0	3,068	· c	116	10,781
Cincinna of the second		,	•	P)	0	0	6		2	453
ransited Petroleum Products	183	445 043					}	>	⊋	327
rinished Motor Gasoline	3 4	410,010	42,061	-8,391	0	C	c	,		
Finished Leaded Motor Gasoline	ņ	198,523	8,165	6,519	·c	-	> 0	17,602	432,064	466,287
Finished Unleaded Motor Gasoline	9 6	79,84	2,629	4,475	· c	o c	5 (514	212,767	204,173
Finished Aviation Gasoline	7	118,682	5,536	2.044	o c	> (>	514	86,478	96.676
Naphtha-Type Jet Filel	0	666	234	, e	.	۰ ت	0	0	126,289	107.497
Kerosene-Type Jot Eriel	0	6,272	485	3 6	> (0	0	0	1.170	950.0
Kerosene	0	27,340	843	1.02	-	0	0	81	6.348	200.4
Distillate Fire! Oil	0	2,863	273	2 6	5 (0	0	191	26 330	36.00
Besidual Fuel Oil	40	86,343	7 985	077	> (0	¢	G	2 856	7,000
Naphtha < 400 Dec for Decent Trans	0	25,224	20.283	2 6	•	0	0	1.589	78.069	110 050
Other Oils / 400 Dea for Date: Tale of the	0	4,378	1 044	200	5 (0	Ö	5.275	39 719	45.000
Special Nanhthas	0	8,356	2	503	0	0	0	211	5.05 2.00 2.00 3.00 3.00 3.00 3.00 3.00 3.00	40,01
Charles	0	1.694	1 606	212	0	0	0	841	767.7	7 600
Mayor	0	4 895	27.6	G !	0	0	0	20.	2000	295'1
D-4	c	527	* :	-12/	0	c	· C	2	670'7	3,023
Peroleum Coke	, c	174 01	41	-37	0		> <	4. 0.	4,666	11,058
Asphalt and Road Oil	o c	10,01	0	343	0) C	.	/n d	438	593
Still Gas	> c	15,024	113	2,711	· c	,	> (8,062	5,952	4,558
Miscellaneous Products	3	18,010	٥	0	o c	> c	>	4	17,844	23.901
***************************************	80	1,750	616	-72		-	> •	0	18,010	0
Total				ļ	>	>	0	ន	2,340	2.247
***************************************	311,925	427,890	159,111	-5,160	14.710	57	000			:
Unaccounted for crude oil is a balancing item.						6	1,000	25,924	470,605	1,502,175
(5) = Less than 500 barrels										

⁽s) = Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January - June 1984 (Thousand Barrels)

B1			AladinS			Bus		Disconsister		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 1,585,948	0	613,157	-44,162	76,878	262	2,184,099	35,993	11,468	766.427
Natural Gas Liquids and LRGs	291,281	67.511	46.160	-207	c	c	86.400	0.046	000	
Pentanes Plus	ŗ,		7,537	-1 756	, c	•	504,00	9,019	303,320	116,729
Liquefied Petroleum Gases		67,511	38,623	1.549	0 0) C	50,400	4 493 6 5 7 2 3	21,742	10,521
Ethane	8	4,173	16,038	171	0	0 0	986	25,0	110,001	200,208
Propane	8	50,560	12,045	-46	0	0	727	4 876	151.903	202,12
Normal Butane	98	12,889	6,380	989	٥	0	28,598	2.168	25.50	19 703
sobutane		-111	4,161	732	Ο,	O	21,229	493	749	726.6
Other Liquids	•	0	58,249	-7,712	0	c	99.836	c	40.830	150 700
Other Hydrocarbons and Alcohol	ω,	0	0	. 1		• =	8.425	,	670,047	154/32
Unfinished Oils		0	45,052	-3.283	c	· c	72.603	,	*60.06	7707
Motor Gasoline Blending Components	0	0	13,197	4,374	0	0	18.728	o c	436,05-	10,701
Aviation Gasoline Blending Components		0	0	-10	0	0	-10	0	0	327
Finished Petroleum Products	1,100	2.403.238	276 746	3,006	c	Ċ	Ċ	4	1	
Finished Motor Gasoline	493	1 168 156	ACC 228	49.679	.	> <	5 (85,072	2,599,018	466,287
Finished Leaded Motor Gasoline	325	482 163	26.772	2 500	3 C	5 6	-	689	305,502,1	204,173
Finished Unleaded Motor Gasoline	168	685,993	27,455	-16 085	o c	.	9 0	68	505,78	96,676
Finished Aviation Gasoline		4,397	279	-67	o c	o c	0) C	056,750	/94./UI
Naphtha-Type Jet Fuel	0	36,406	3,536	-693	0) C	c	175	900,4 600,06	000.5
Kerosene-Type Jet Fuel		162,282	8,839	-3,632	0	0		769	166,719	36,000
Kerosene	φ	20,071	1,458	72-	0	0	0	17	21.491	7 887
Desidual Englosi	338	478,247	47,631	27,534	٥	0	0	8,533	545,117	112,868
Nanhtha / Ann Dam for Dotton Food 1100	0 6	162,219	141,175	2,297	0	0	0	28,913	276,778	46,811
Other Oils / 400 Dea for Dato East Use		24,507	5,079	-530	0	0	o	1,292	28,165	1,942
Special Naphthas	ų	20,000	2	-202-	5 (0	0	3,022	46,102	1,962
Lubricants		20,132	104,8	130	_	0 6	0 (546	19,067	3,023
Waxes		200,00	776.	/ O' -	> c	- (٥,	3,092	28,849	11,058
Petroleum Coke	c	27,024	9 0	<u> </u>	> (5 (ɔ (230	2,835	593
Asphalt and Road Oil	0	388	249	225	-	50	3 0	37,362	45,455	4,558
Still Gas	0	102 909	, , ,	2	o c	.	> 0	2 0	54,47B	23,901
Miscellaneous Products	413	11,577	2,689	438	0	00	0 0	180	14.061	0 247
1								}		i
072	1,886,799	2,470,749	994,312	-49,075	76,878	262	2,370,344	130,080	2,878,978	1,502,175
The second second for the second seco			70					4		

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels per Day)

			Supply				Conceition	ition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Crude	Refinery Inputs	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,743	0	3,410	-95	490	8	12,263	222	61
Natural Gas Liquids and LRGs	1.606	403	189	-205	c	ć	. ;	1	;
Pentanes Plus	700	}	2 .	607	-	> '	444	22	1,495
Liquefied Petroleum Gases	13.5	204	. a	Q1-	> 0	0 (207	က	101
Ethane	406	3	9 4	6 T	-	5 (234	23	1,394
Propane	515	287	9.5	4.0	0	0 0	α •	un ;	566
Normal Butane	200	102	i e) } -	o c	.	4 1	4	663
Isobutane	100	ļ T	2 5	-56	0	0	21.7	_ «	190
Other Liquids	Ş	ď	ć	;	,	1	•)	}
Other Budrocarbons and Machai	¥	5 1	302	40/	0	0	1,022	0	-272
The injury of the Archital Archital	42	0	0		0	0	4	0	0
Motor Cooffee Director Contractor	0	0	229	381	0	0	878	O	-268
A total dasonine plending Components	0	0	73	ଥ	0	o	102	٥	4
Aviauori Gasoline Diending Components	0	0	0	8	0	0	CV	0	0
Finished Petroleum Products	9	13.860	1,402	-280	c	c	d	100	00,77
Finished Motor Gasoline	c	7.50	5	1 5	,	> 1	>	200	14,402
Finished Leaded Motor Capaline) (212	/17	>	0	0	17	7,092
Finished Heleaded Motor Coording	7	7,00	8	149	0	0	0	17	2,883
Enished Aviation Constitution	- (3,956	185	89	0	o	0	0	4,210
Monthly Ties 1st First	י כ	8	ω	2	0	0	0	a	33
Koronan Tana tat Eust	5 (209	9	7	0	0	0	ო	212
Kerosene-Type det Fuel	D (911	, 28 28	-55	0	0	0	9	878
	>	S ;	တ	op T	0	0	0	(s)	8
	 (2,878	266	490	0	o	0	53	2,602
Alsohita / 400 Des to Deter Cont 11.5	5 (4	9/9	-17	0	0	0	176	1,324
Other Oils A 400 Deg. 101 Feet. Feet. Use	5 (146	32	-7	0	0	0	7	167
Ourse Ous > 400 Deg. for Petro, Peep, USe	∍	279	0	7	0	0	0	88	258
Special Naphrinas	0	29	54	မှ	0	0	0	5	94
Luoricants	0	163	12	4	0	0	0	16	156
Waxes	٥	16	-	ï	0	0	0	·	1 4
Petroleum Coke	0	456	o	ţ	0	a	0	586	198
Asphalt and Road Oil	0	501	4	06	0	0	0	(5)	595
Still Gas	0	009	0	0	0	0	0		900
Miscellaneous Products	Ø	58	21	-2	0	0	0	· -	78
Total	10.398	14 263	2004	172	90	¢	000	i	1
70000000000000000000000000000000000000	2	3,600	1,00,1	7/1-	064	N	13,729	864	15,687

Unaccounted for crude oil is a balancing item.
 (s) = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - June 1984 (Thousand Barrels per Day)

			Supply				Dispo	Dienoeition	
Commodity	Field Produc- tion	Refinery Produc- tion	lmports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Crude	Refinery Inputs	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,714	0	3,369	-243	422	-	12,001	198	83
Natural Gas Liquids and LRGs	1,600	371	254	٢	0	0	475	20	1,700
Pentanes Plus	285	0	41	-10	0	0	195	က	119
Liquefied Petroleum Gases	1,315	371	212	თ	0	0	280	47	1,580
Ethane	200	ន	88	-	0	0	2	ហ	604
Propane	518	278	99	(s)	0	0	4	27	831
Normal Butane	200	7	35	4	0	0	157	12	141
Isobutane	46	7	23	4	0	0	117	6	4
Other Liquids	47	0	320	42	0	0	549	c	-224
Other Hydrocarbons and Alcohol	47	0	0	(3)	C	c	46		ì
Unfinished Oils	0	0	248	-18	0	0	368	o c	-170
Motor Gasoline Blending Components	0	0	73	-24	C	0	103	o C	5-
Aviation Gasoline Blending Components	0	0	0	(s)	0	0	(s)	0	٥
Finished Petroleum Products	9	13,205	1,521	17	0	0	0	467	14.280
Finished Motor Gasoline	m	6.418	28.	-103	· C	c	· C	ıc	6,612
Finished Leaded Motor Gasoline	0	2,649	147	4-1	0	0	0	מע ל	2779
Finished Unleaded Motor Gasoline	·-	3,769	151	88-	0	0	0	0	3.833
Finished Aviation Gasoline	0	24	8	(S)	0	0	0	0	25
Naphtha-Type Jet Fuel	0	200	9	4	0	0	0	-	215
Kerosene-Type Jet Fuel	0	892	49	-20	0	0	0	4	916
Kerosene	(s)	110	ω	(8)	0	0	0	(s)	118
Distillate Fuel Oil	-	2,628	262	151	0	0	0	47	2,995
Residual Fuel Oil	0	891	776	13	0	Б	0	159	1,521
Naphtha < 400 Deg. for Petro. Feed. Use	0	135	28	7	0	0	0	7	155
Other Oils > 400 Deg. for Petro. Feed, Use	0	271	0	Τ	0	0	0	17	253
Special Naphthas	(s)	8	25	-	0	0	0	m	105
Lubricants	0	159	F	φ	0	0	0	17	159
Waxes	0	4	***	•	0	0	0		9
Petroleum Coke	0	450	0	ហ	٥	0	0	205	250
Asphalt and Road Oil	O	326	-	-28	¢	0	٥	(s)	299
Still Gas	0	565	0	0	0	0	0	٥	565
Miscellaneous Products	CV	49	15	۲	0	0	0	-	77
Total	10,367	13,576	5.463	-270	422	1	13.024	715	15.819
				i	[!	

Unaccounted for crude oil is a balancing item.

(s) = Less than 500 barrels.

(e) = Estimated.

Note: Total may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrets)

(Control proposition)											
			Supply	-				Dispo	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 1,854	o	26,167	887	3,365	3,123	-	35,395	0	0	15,055
Natural Gas Liquids and LRGs Liquefied Petroleum Gases Pentanes Plus	870 777 93	1,238 1,238 0	1,403 610 794	-347 -343 -4	0 00	1,487 1,487 0	000	204 166 38	16 0	4,432 3,587 845	3,359 3,304 55
Other Liquids	65	0	3.210	311	0	167	0	4.314	0	561	20,600
Other Hydrocarbons and Alcohol	: B	0	0	-57	0	0	0 1	80 9	Q (0	92
Motor Casalina Blandina Components		5 C	418,1	010,1 163-	5 C	35	> C	4,509	o c	000'i-	14,903
Aviation Gasoline Blending Components		•	0	3 -	00	50	0	-11	0	20	11
Finished Petroleum Products		40,424	35,493	-4,210	0	65,407	0	0	512	136,667	150,042
Finished Motor Gasoline		17,604	6,876	2,411	O	41,172	0	o	28	68.070	63,798
Finished Leaded Motor Gasoline	38	5,254	2,147	902	0	14,089	0	0	28	22,372	29,197
Finished Unleaded Motor Gasoline		12,350	4,730	1,509	D	27,083	0	0	0	45,699	34,601
Finished Aviation Gasoline	0	₽	234	-73	0	259	0	0	0	430	483
Naphtha-Type Jet Fuel		891	447	51	0	62	0	0	0	1,468	878
Kerosene-Type Jet Fuel	о́ ·	1,154	753	-799	0	8,491	0 (0 (0	9,599	9,000
Kerosene		128	273	-296	0	226	00	5 6	4.0	327	3,400
Residual Fuel Oil		9,500	18.22	1,412	o c	1675	> C	9 0	7 0	24.425	21.913
Naphtha and Other Oils for Petro. Feed.		322	7	?	0	φ	0	0	49	270	275
Special Naphthas		40	415	-21	0	147	0	0	9	575	743
Lubricants		654	237	-34	0	529	0	0	152	1,233	3,011
Waxes		81	53	9	0	5	0	0	4	122	9
-~	0	1,215	O	0	0	0	0	0	22.	1,003	536
Asphalt and Road Oil	0	3,494	91	710	0	179	0	0	ณ	4,472	5,556
Still Gas		1,802	0	0	0	0	0	0	0	1,802	٥
Miscellaneous Products		298	586	29	0	231	0	0	4	1,160	347
Total	2,854	41,662	66,273	-3,359	3,365	70,184	-	39,913	527	140,538	189,056

Unaccounted for crude oil is a balancing item.
 (s) = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			NS.	Supply				Dispr	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 31,293	0	14,073	1,463	40,517	2,312	Ŧ	89,218	428	0	77,934
Natural Gas Liquids and LRGs Liquefied Petroleum Gases Pentanes Plus	9,877 8,497 1,380	2,347 2,347 0	3,160 3,160 0	-1,506 -1,400 -106	600	1,379 1,285 94	0 00	4,229 2,902 1,327	5 25 446 79	10,503 10,540 -38	36,100 32,264 3,836
Other Liquids	349	0	214	319	0	-804	0	1,115	0	-1.037	24.793
Other Hydrocarbons and Alcohol	349	0 0	0;	φ;	0 (0	0	341	0	0	137
Motor Gasoline Blending Components	- 0	- 0	4.0	542	00	 508 	O C	23 747	00	-832 -205	17,325
Aviation Gasoline Blending Components	0	0	0	4	0	0	0	4	•	} 0	136
Finished Petroleum Products	19	95,886	904	-231	0	23,619	0	0	544	119.652	119.539
Finished Motor Gasoline	0	52,962	82	2,282	0	14,345	0	0	0	69,671	58,308
Finished Leaded Motor Gasoline	0	23,127	45	1,490	0	7,161	0	0	0	31,823	29,154
Finished Unleaded Motor Gasoline	0	29,835	37	792	0	7,184	0	0	0	37,848	29,154
Finished Aviation Gasoline	0 0	97	00	- 6	0 (166	0 (0 (φ.	252	532
Kerosene-Type Jet Fuel	0	5 6 8 8 8 8 8 8	0	173	9 0	- 64 <u>7</u>	o e	9 0	00	849 4 834	1,547
Kerosene	0	295	0	357	0	8	0	0	0	655	1,613
Distillate Fuel Oil	0	22,169	438	4,677	0	7,728	0	0	0	25,658	31,744
Nonthity and Other Circ for Date: Each	00	1,535	133	364	o (ထူ (0 (٥	۰;	1,964	3,579
Special Naphthas	00	270	4 001	, ,	> c	8 6	5 C	.	2 6	840	192
Lubricants	0	665	<u> </u>	-215	0	417	0 0	0	96	35.5	200
Waxes	0	8	Ŋ	၅	0	0	0	0	(s)	8 %	25
Petroleum Coke	0	3,308	0	84	0	0	0	0	457	2,935	1,086
Asphalt and Road Oil	0	4,558	0	1,370	0	393	0	O	-	6,320	10,205
Still Gas	٥	3,820	0	0	0	0	0	0	¢	3,820	0
Miscellaneous Products	<u>ი</u>	506	53	104	0	-219	0	0	CVI	196	234
Total	41,538	98,233	18,350	45	40,517	26,506	Ξ	94,562	1,497	129,118	258,366

1 Unaccounted for crude oil is a balancing item.
(s) = Less than 500 barrels.
E = Estimated.

Note: Total may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			ЛS	Supply				ä			
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude	Refinery Inputs	Inspectation If Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 124,899	0	52,794	-7,152	-19,510	10.256	75	161 220			
Natural Case Liquids and 1000				•			?	563,101	>	57	578,449
Liquefied Petroleum Gases	33,854	7,147	40 1	-4,120	00	-1,286	0	7,565	931	27,500	74,253
Pentanes Plus	6,112		32	-378	0	139	00	3,081 4,484	931	26,076 1,424	67,926
Other Liquids	584	-	A 95.1	707	•					•	
Other Hydrocarbons and Alcohol	284	•	r f	10,137	5 6	-207	0	21,684	0	-6,319	67,393
Untinished Oils		0	4.833	9.636	o c	, ,	-	586	0	0	66
Motor Gasoline Blending Components	0	0	18	451	0 0	-170	0	18,836	0	-4,537	49,462
Aviation Gasoline Blending Components		0	0	48	0	<u> </u>	.	2,214 4 8 4	0 0	-1,782	17,683
Finished Petroleum Products	Ş	ļ				,	o	ş		-	149
Finished Motor Casoline	en (190,472	3,780	-3,992	¢	-91,573	0	C	7 203	01 577	404 460
Finished Leaded Motor Confirm	20 (88,566	4	1,558	0	-57,134	0) C	7.	100.00	100 02
Finished Holosded Motor Opposite	30 ·	34,310	214	1,372	0	-21,978	0	o c	2 9	10000	22.70
Finished Aviation Constine	ο.	54,256	227	186	Φ	-35,156	, C) C	5 0	0,01	23,940
Naphtha-Tubo lot E.o.	0	459	٥	92	0	-447		· c	o c	0,0	146,82
Karasaba Tupo let Eust	0	2,725	59	-118	0	-236	0 0	o c	2 4	25.07	יון י
Kerosene	0 (13,593	0	-1,137	0	-9,784	0	0	 	2517	15,23
Distillate Filel Oil	- (2,265	0	-336	0	-229	0	0	} -	1.699	2 524
Residual Fuel Oil	₽ -	38,787	- (-2,445	0	-20,364	0	0	472	15.547	26.077
Naphtha and Other Oils for Petro. Feed	> <	206,4	284, r	-1,158	0	-1,607	0	0	1,106	7,561	11.214
Special Naphthas		1063	252	9 4	0 (-28	0	0	854	10,944	3,225
Lubricants	o c	200,0	8	- 136	o ;	-267	٥	0	36	1,320	1,549
Waxes	o c	2,4	φ.	9	0	-916	٥	0	216	2.225	4.625
Petroleum Coke	0 0	D) (0	o (89 i	0	-10	0	0	59	217	391
Asphalt and Road Oil	-	200,0	۰ ;	-52	0	0	0	0	4.170	1.280	1 229
Still Gas	-	858's	83 °	126	0	-572	٥	0	(S)	3,415	3,278
Miscellaneous Products	>	8,020	5	0	0	0	0	٥	0	8.020	į
	.	oro,r	τ	ب	0	21	0	0	4	1,043	1,118
Total	159,430	197,619	61,826	-5,127	-19,510	-82.810	35	190 488	8 134	110	975
							ì		2	10/511	044,230

¹ Unaccounted for crude oil is a balancing item.
(s) = Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures. See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			nS	Supply				, Sign	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 17,001	o	944	525	-4,792	0	ļ <u>+</u>	13,671	0	9	13,459
Natural Gas Liquids and LRGs	2,599 1,784 815	106 106 0	321 208 112	37 34 3	• 00	-1,580 -1,347 -233	- 00	435 322 113	0 00	1,048 463 584	1,183 931 959
Other Liquids	0	0	C	186	c		c	ç	•		
Other Hydrocarbons and Alcohol	0	0	٥	0	0	• 0	• •	<u>1</u> C	ə c	86	990'6
Most Cooling Pinnshop	0	0	0	O	0	0	0	-193	0	202	2.719
Autotica Casolina Blandina Components	0 (0 (0	177	0	0	0	181	0	4	2,349
retained described of the posterior	0	b	0	0	0	Ö	0	0	0	0	0
Finished Petroleum Products	9	14,301	147	1,011	0	-306	0	0	e	15,156	13.56B
Finished Motor Gasoline	01	7,292	47	729	0	-160	0	0	0	7.910	5,592
Finalise Leaded Motor Gasoline	α.	4,296	45	402	0	-264	0	0	٥	4.481	3.595
Chicked Austin Confidence	0	2,996	N ·	327	0	104	0	0	0	3,429	1.997
Nontition lot Engl	0 (2	0	ω	0	83	0	٥	0	2	295
Kerosepe-Type Jet Fluel	0 0	443	0 (4.	0	-130	0	0	0	268	333
Kerosene	-	8	5 0		φ.	353	0	0	0	1,156	788
Distillate Fuel Oil	- 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	o 0	N g	0 0	0 ;	0 (0 (0	23	37
Residual Fuel Oil	0 0	720°C	ñ	<u>۲</u>	-	-391	0 0	0 (0 (3,533	3,463
Naphtha and Other Oils for Petro. Feed.	0	0	10	•	0	0	00	o c	⇒ 1-	273	510 2
special Naphthas	Φ	ო	<u>(s)</u>	ï	0	0	0	0	· c	۰ ۵	pφ
Lubricants	0	35	<u>(s)</u>	7	0	0	0	0		i K	, 6
Dotted Color	0	 	0	0	0	0	0	0	0	=	. 0
Apply 1-1 Dead Off	φ.	258	0	မှ	0	٥	0	0	0	252	174
CALL CAS	ο ·	826	0	281	0	0	0	0	-	1,139	2,521
Misselloneaux Description	0	487		0	0	0	0	0	0	487	0
Miscella redus Froducts	4	31	(S)	ശ	0	0	0	0	(s)	40	10
Total	19,606	14,407	1,411	1,759	-4,792	-1,886	-	14,094	ю	16,408	33,278
					İ						

Unaccounted for crude oil is a balancing item.
 = Lest than 500 barrels.
 = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 10. PAD District V, Supply and Disposition of Crude Oil and Petroleum Products, June 1984 (Thousand Barrels)

			SO	Supply				Oispo	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude Losses	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 87,243	0	8,334	1,441	-4,870	-15,691	29	68,378	6,237	1,813	81.530
Natural Gas Liquids and LRGs	991	1.239	394	-201	c	ć	(. !		! !	
Liquefied Petroleum Gases	557	1,239	394	-210	0	> 0	9 0	876 637	186 78 78 78 78	1,362	1,834
rentanes Plus	434	0	0	cn	0	0	0	239	30	204	
Other Liquids	263	0	786	1 251	c	770	c	e e	4	!	
Other Hydrocarbons and Alcohol	263	0	30	1,43	,	†	-	3,569	O (-425	34,878
Unfinished Oils	0	0	15	1.004	Ç	844	.	202)	0 00	2 7
Motor Gasoline Blending Components	0	0	777	228	0	,	.	מר מר	5 C	305, L-	25,314
Aviation Gasoline Blending Components	0	0	0	18	0	0	00	<u> </u>	00	ē -	0,00 1,1
Finished Petroleum Products	c	74.730	1 738	090	c	e de			• !		-
Finished Motor Gasoline	· c	32,000	7.12	190	•	2,03	-	5	9,340	69,012	58,975
Finished Leaded Motor Gasoline	o C	12,633	177	i oc	> 6	7,77,	0 0	0 (381	33,752	23,188
Finished Unleaded Motor Gasoline	c	10.04	194	606	> 0	200	0 6	0 (381	13,952	10,784
Finished Aviation Gasoline	0	413	ξ .		> C	60	-	0 (0 (19.801	12,404
Naphtha-Type Jet Fuel	0	1383	ο	1 22	o c)))	> c	50	0 0	331	572
Kerosene-Type Jet Fuel	0	7,827	6	27	0	200	o C	5 C	⊃ g	1,443	7.6.1
Kerosene	0	175	0	7	0	C) C) C	9	627	2000,0
Distillate Fuel Oil	0	12,125	126	-126	0	610	c	· c	1114	11 821	11 841
Hesidual Fuel Oil	0	10,161	445	-948	0	0	0	· c	4 159	5 480	2020
Naphtha and Other Oils for Petro, Feed.	0	340	0	440	0	0	0	0	8	683	000
special Naphthas	0	118	271	2	0	0	O		243	148	3.5
Lubricants	0	331	75	24	0	-30	0	c	79	324	1 262
Waxes	0	2	ო	φ	0	0	o	c	4	3 6	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Petroleum Coxe	0	3,388	0	308	0	0	0	o	3.214	482	1 533
Asphalt and Hoad Oil	0	2,274	0	224	0	0	0	0	(8)	2.498	2.341
Sull das	0	3,881	0	0	0	0	0	o	·	3.881	Ċ
Miscellarieous Products	0	145	-	-209	0	ង	0	0	m	66	238
Total	88,497	75,969	11.251	1.522	-4 870	11 004	ő	72 000	45 769	*31.*1	ļ
	•		į) }	1 12004	3	1 4,063	20,40	10/17	112,111

Unaccounted for crude oil is a balancing item.
 (s) = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Currently Available Month, ¹ April 1984 (Thousand Barrels)

radie 11. Floudciloi of Crude Oil (including Lease Condensate) by PAD District	and State, for the Most Currently Avaitable Month, 1 April 1984	(Thousand Barrels)	—Continued

DAD District and State		Production		Production	
ļ	Total	Daily Average	PAD District and State	Total	Daily
PAD District I					Pierane
New York	1,215	4 ₁	PAD District IV		
į	E 351	E 12	Montana	1 2 2 3 5 8	E 79
Virginia	, m	i m	Hah	7.304	/ J
West Virginia	320	=	Wyomina	7 0 7 0 F	ה שמ הענים
Adjustment 2	-11	ŝ	Adiustment 2	2010	5 25
Total PAD District	E 1,947	E 65		E 17,028	E 568
PAD District II			CA C		
Ilinois	3050	ş	PAD District V		
Company	025.3	1 0	Adaska		
Kansas	0.00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	South Alaska	1,939	9
Kantisky	00°0	212	North Slope	51,150	1,705
Michigan	953	5.5	Adjustment for Alaska2	-1,348	-45
Missouri	2, C	Э <u>+</u>	:	51,741	1,725
Nebraska	ָרָבְיּבְיּבְיִבְּיִבְיִבְיִבְיִבְיִבְיִבְיִבְיִבְיִבְיִבְ	- 1	AIZONA	9	-
- 53	96.	- 5	California		
Ohio	1,400 1 + 100 1 + 100	7 0	Central Coastal	6,164	205
Oklahoma	181.1 J	, t	rasi Central	20,860	695
South Dakota	100,100	7,4	CITION THE COLUMN THE	16	-
Tennessee	1 0	,	Total Only	6,528	218
2	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	2	Lotal Calliornia	33,568	1,119
Distr	T 24 172	1000	Negada Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-	103	ო
		890': J	Aujusiment for Anzona, California, and Nevada	-216	2-
PAD District III			**************************************	612,00	1,04
Alabama	1,533	<u></u>	United States Total	E 260 643	F 8 689
Arkansas	E 1,509	E 50		20,000	0000
Louisiana			1 Includes the following offshore production (thousand barrets);	;;	
Gulf Coast	38,298	1,277	Alaska: State - 1,701;		
Hest of State	2,671	68	California: Federal - 2,493, State - 3,174;		
Total Louisiana	40,969	1,366	Louisiana: Federal - 25,494, State - 2,222;		
Mississippi	2,653	88	Texas: Federal - 1,757, State- 159;		
New Mexico					
Northwestern	543	18	2 These adjustments are used to reconcile the national and PADD	PADD	
Southerstein March 1997	5,845	195	level sums of the State data with the independently estimated	ated	
Total ivew Mexico	6,388	213	U.S. and Alaskan figures shown in the Summary Statistics portion	portion	
Topo District Of			of this issue and with the PADD level figures published in a	rs)	
	2,148	72	previous issue. Final data at the State, PAD District and		
	3,221	107	national levels will be published without adjustments in the		
	10,333	344	Petroleum Supply Annual.		
TOTAL DISUICE U4	2,444	.	Note: Total may not equal sum of components due to independent rounding.	ndent rounding.	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	670	83	Source: See Explanatory Notes on Data Collection and Estimation.	nation.	
TRAC District Up, excluding East Texas	3,506	117	 Data not available. 		
TDDC District 070	2,969	හි	E = Estimated.		
TRUE District on	45.65	86			
TBBC District 084	13,014	450 450			
TBBC District 09	070,7	מ מ מ			
TRRC District 10	D C C	- 7			
١,	7350	2 ¢			
Total Texas	74.513	2.484			
	-2.285	9/-			
Total PAD District III	E 125.280	E 4 176			
) : - F			

Table 12. Natural Gas Processing Plant Production of Petroleum Products by PAD District,¹ June 1984 (Thousand Barrels)

	PAD	District	-		à	0.00											
Commodity	East Coast		Total	Appala- chian #2	lnd. ∭. Ky	Minn. Wisc.	Okla. Kans.,	Total	Texas	Gulf	×	_	New	Total	PAD Dist. IV Rocky	PAD Dist. V West	United
Natural Gas Liquids Pentanes Plus Liquefied Petroleum Gases Ethane Propane Normal Butane	358 328 328 138 72 20	514 451 494 79 29	870 93 777 245 332 151 49	## XD++0	1,645 225 1,420 581 503 184 152	476 124 352 4 203 119 26	7,753 1,030 6,723 2,977 2,498 812 436	9,877 1,380 8,497 3,562 3,205 1,116 614	19,323 3,635 15,688 6,172 5,964 2,554 998	2,991 2,55 2,736 1,093 1,175 1,175 216	7,012 1,286 5,726 2,516 1,976 659 575	23333178	3,940 759 3,181 1,016 1,300 581	33,854 6,112 27,742 10,860 10,588 4,133 2,161	2,599 815 1,784 217 1,000 450	Coast 991 434 557 332 332 158 64	48,191 8,834 39,357 11,887 15,457 6,008
Finished Petroleum Products Finished Motor Gasoline Finished Leaded Motor Gasoline Finished Unleaded Motor Gasoline Finished Aviation Gasoline Finished Aviation Gasoline Finished Aviation Gasoline Finished Aviation Gasoline Finished Aviation Gasoline Optitude Jet Fuel Kerosene-Type Jet Fuel Distillate Fuel Oil Special Naphthas	65 27 27 27 27 27 27 27 27 27 27 27 27 27	0000000000	65 65 27 27 00 00 00 00	000000000	+00000000 +	0000000000	\$000000000	<u> </u>	27 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7	**************************************	N000000000	# C C C C C C C C C C C	V 0 0 0 0 0 0 0 0 0 0 0	68 a a c c c c c c c c c c c c c c c c c	@ W W O O O O O O O 4	0000000000	183 775 000 000 000 000 000 000 000 000 000
Total Production	421	514	935	n	1,646	476	7,771	9,896	19,350	3,040	7,014	596	3,947	33,947	2,605	991	48,374

1 Production represents quantity of natural gas processing plant output less input to fractionating facilities. Source: See Explanatory Notes on Data Collection and Estimation.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels, Except Where Noted)

	PA	PAD District			ď	PAD District	=				PAD District	trict III			CVO	GAG	
Commodity	East	Appala- chian #1	Total	Appala- chian #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okla. Kans., Mo.	Total	Texas	Texas Gulf Coast	Gulf Gulf Gast	No. La.	New Mexico	Total	Plocky	Dist. V West	United States
Crude Oil (including lease condensate) 33,010	33,010	2,385	35.395	1,745	59.495	8.682	19.296	89 218	16.025	78 916	58 300	7 563	2000	164 000	10 634	00000	100
Pentanes Plus	88	0	38	0	612	20	965	1,327	1.039	2,920	349		9 5	4 484	113	ġ.	307,301
Liquefied Petroleum Gases	132	8	166	=======================================	1,963	564	564	2,902	323	1,050	1,536	128	3 4	3.081	32.5	637	7 108
Ethane	0	0	0	0	N	0	0	8	0	0	25	0	0	<u>.</u>	9		, e.
Propane	0	0	0	0	67	0	0	29	0	•	38	0	0	6	· c) ,	10.5
Normal Butane	98 6	¥ c	126	33.5	908	800	43	1,284	25	501	791	52	13	1,400	242	398	3,450
	7	>	2	0	900	Ď	423	1,549	22 23 23 24 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	548	656	5	ë	1,591	8		3,498
Other Liquids	1	,															
Other Hydrocarbons and Alcohol	œ <u>ç</u>	۱ -	ω ;	0	328	0	ti	341	0	208	376	0	۲3	286	0	564	1,199
Motor Gasoline Blending	4,436	EZ.	4,509	Ŋ	157	-274	142	ន	163	14,390	4,176	-10	117	18,836	-193	3,169	26,344
Components (net)	-198	Q	-192	4	710	5	23	747	154	255	1,743	53	00	2,214	181	118	3,068
Components (net)	7	0	7	0	5	0	4	4	O	0	48	0	٥	48	0	8	99
Total Input to Refineries	37,415	2,498	39,913	1,858	63,316	8,732	20,656	94,562	17,704	97,739	66,627	5,815	2,603	190,488 14,094	14,094	72,823	411,880
Grude Oil Distillation Gross Input (daily average)	1,071	80 į	1,150	58	1,999	295	653	3,005	544	2,703	1,369	187	12	5,481	458	2,298	12,393
Operating Ratio (percent) ¹	76.3	1/4 45.6	72.9	66 88.1	2,329 85.8	304 97.0	787 83.0	3,486 86.2	90.2 90.2	3,802 71.1	2,539 77.6	294 63.8	109 70.8	7,348 74.6	558 82.2	3,100	16,070 77.1
Crude Oil Qualities Sulfur Content, Weighted Average (percent)	8	8	Ca	Ų	8	ç r	č	8	8	!	Š	,	i	;	;	;	;
API Gravity, Weighted Average	32.11	40,17	32.70	37.16	35.61	30.96	37.81	35.66	.62 37.40	34.35	33.00	32.25	39.32	.95 34.17	35.09	1.01 25.60	32.83
Operable Capacity (daily average) Operating	1,404 1,257 147	4 t t 2 4	1,578 1,367 211	တ္ထ တ္ထ ဝ	2,329 2,154 175	304 304 304	787 726 61	3,486 3,247 239	604 584 20	3,802 3,622 181	2,539 2,362 176	294 238 56	109 107 2	7,348 6,913 435	558 530 28	3,100 2,894 207	16,070 14,950 1,120

1 Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding, Source: See Explanatory Notes on Data Collection and Estimation.

Table 14. Refinery Production of Petroleum Products by PAD District, June 1984 (Thousand Barrels)

	4	PAD District	11		A	PAD District	11 11				PAD Die	District 111			0,00	0	
Commodity	Coast	Appala- chian #1	Total	Appala- chian ±2	Ind.,	Minn. Wisc.	Okla Kans.,	Total	Texas	Texas	j	يد ت	New	Total	Dist. IV	PAD Dist V West	United States
Liquefied Refinery Gases	1,224	7	1,238	37	1.817	229	26.4	2 947	676	Coast	Coast	7 5			j.	Coast	
For Petrochemical Feedstock Use			444	0	808	7	2 4	5.5	¥ 5	200	2,7	3 6	70,	7,147	90 4	1,239	12,077
For Other Uses	780		794	37	1,611	212	222	2,082	3.5	1,817	1,794	ွှင	† 10	000,0	≥ 8	202	3,981
For Petrochemical Foodstock 1s.s.	. 32	0 (Si c	0 1	0	0	0	0	0	385	τ̈	0	•	400	ţ		432
For Other Uses	- بر م		ာ ငွ	0 0	0 (0 (0	0	0	188	-	0	0	189	0	0	189
Propane			3 6	⊃ (;	2 0	<u>د</u>	0 5	0 ;	0	197	4	0	0	211	0	o	243
For Petrochemical Feedstock Use	384		384	ō C	7.0	3 0	4 5	2,483	307	2,152	1,464	56	88	4,037	147	_	8,604
For Other Uses		. 1	593	37	1,606	200	4 g	2 248	376	5 5	245	0 9	۰;	1,064	0	193	1,889
Normal Butane			22	; 0	1	3 5	3 5	26.4.2 4.26	9 K	ر و د	7,222	က္က ဇ	gg :	2,973	147	_	6,715
For Petrochemical Feedstock Use			8	· C) C	<u> </u>	<u> </u>	5 .	ğ c	4.	2,244	.	49	2,738	42	_	3,059
For Other Uses	4-		691	, 0	o KO	<u>:</u> "	18. c	- 22 - 12	⊃ĸ	- 45 C 140	989'	0	0 9	1,831	- ;		1,921
Isobutane for Petro. Feed, Use	0		0	0	0	· c	5	3 0	9 0	e e	e G	.	4 0	907	က္က		1.138
Finished Motor Gasoline	16,781	823	17,604	1.048	36.188	4.421	11.305	52 962	000	45 1	2 6) 1	0 9	738	- ;		-18
Finished Leaded Motor Gasoline	4,892		5,254	474	14,216	2,232	6,205	23.127	4.520	15,15	12.301	756	0,070	88,566	7,292	32,099	198,523
rinished Unleaded Motor Gasoline	11,889		12,350	574	21.972	2,189	5,100	29.835	4 409	28.95	19.408	9 6	9 8	0.0,40	4 C		40,00
Monthly Time 1st First	₽ ;	0	10	0	8	0	17	97	5	283	160	3	j c	25.4	066		700'0
Mapping Type Jet Puer	820	₽	891	11	414	109	170	830	934	739	514	110	410	2 7 25	9 5		1 6
Kerosono	 \$	۰:	1,154	~	3,151	343	202	4,008	894	5.810	6.773		5	13.503	7 4		27.00
Distillate End Ail	j ĉ	ලි <u>;</u>	128	45	189	건	49	292	87	1,220	830	88	84	2 265	3 0		9 863
Besides Fiel Of	4/0,0	Ε;	9,385	450	13,193	2,405	6,121	22,169	4,272	19,046	13,058	1.718	693	38.787	3.877		86.343
Naphtha / 400 Den Bor Detro Good 120	2,202	£ 6	3,346	29	1045	164	267	1,535	638	6,450	2,621	233	9	9.952	200		25,25
Other Oils / 400 Dea For Bates East stone	5	5	317	0	687	0	2	757	122	2,865	15.	17	0	3.158	}		4.178
Special Narothas	o ;	> 6	υć	0	116	0	0	116	127	5,450	2,464	0	0	8 04 1	• 0		9356
Lubicants	- <u> </u>	3 8	₹	5 (280	0	6	470	6	790	68	113	0	1,063	m		1,694
Waxes		3 5	Š Š	> c	200	0 (113	965	54	1,938	883	362	0	3,213	32		4.895
Petroleum Coke	196	<u>.</u> =	2 2	ے د	7 .	<u>و</u>	۳ <u>:</u>	8	ဖ	108	102	8	0	279	F		471
Marketable	430	9 0	- - - - - - - - - - - - - - - - - - -	9 0	7,7	223	282	3,308	292	2,705	2,425	69	Ξ	5,502	258		13,671
Catalyst	757	9	77.	÷ g	2 6	÷ ÷	9	E, 5	8	1,103	29,	4	0	2,846	107		7,895
Asphalt and Road Oil	3.402	9	3.494	Ş	000	7 2	200	704.	\$ 53 c	7,602	784	KI .	Ξ	2,656	151		5,776
Still Gas	1,708	1 6	1,802	3 4	2,430	2 5	8 6	4, c	A 6	200	1,372	1,10	114	3,839	823		15,024
For Petrochemical Feedstock Use	<u>8</u>	0	163	. 0	3	5	3 5	0,020	n n	4,700	140,5	92	3 (8,020	487		18,010
For Other Uses	1,545	86	1.639	45	9 637	341	702	1 000	ָּהָ מַנְי	200	2 2	> (- ;	718			1,031
Miscellaneous Products	248	9	298) ec	177	<u>.</u>	3 6	0,010	4 4	4,147	2,481	, S	3	7,302	486		16,979
Fuel Use	117	4	134) C	r c	y c	ă	90	ກເ	ğ	£ 5	49	0 (1,010	9		1,750
Non-Fuel Use	131	93	16) (r)	174	, c	o (5	286	o c	? 8	188	0 5	0	£ 50	<u></u>	17	313
:)	:	;	š	3	D	60	ò	64	>	98	0	128	1,437
Total Production	39,192	2,470	41,662	1,900	65,987	9,147	21,199	98,233	17,827 1	101,385	69,899	5,863	2,645 1	197,619	14,407	75,969	427,890
Processing Gain(-) or Loss(+)1	-1,777	88	-1,749	-42	-2,671	415	-543	-3,671	-123	-3.646	-3.272	48	42	-7 131	6	9 4 46	9
									!		į	}	j	<u>.</u>	2		0,0,0

¹ Represents the arithmetic difference between input and output. Note: See Explanatory Note 2. Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Percent Refinery Yield of Petroleum Products by PAD District, June 1984

	ď	DAD DIRECTOR	-		i									Ì		i	
	5				בֿ	PAU DISTRICT					PAD District	strict			PAN	000	
Commodity	East Appala-	Appala- chian	Total	Appala- chian	Ind.	Minn	Okla. Kans.	Total	Texas	Texas Gulf	ej ja	No. La.	New New	Į į	> >	Dist. V West	United
		#		#5		Daks.	ΨQ W			Coast	Coast	AIR.	Mexico	\dashv		Coast	
Finished Motor Gasoline2	940	5	* * * *	2 63	0 7 2	1	į		1								
Finished Aviation Gasoline3		, ,	į,	9	o,	46.7).Tc	53.4	45.B	43.6	44.3	26.7	37.5	43.4	49.5	43.1	45.9
finished Reflect Coops	7. 6	Þ. 6	٠. ;	C,	o,	ó	က်	۳:		ιú	ιή	o,	0	C.	-	ď	, 0
Nanhtha-Time 1st E.s.	9 G	, D	 	23	3.0	2.7	4.	5.6	23	3.1	5.9	Ξ	4.4	4	; a c	; -	i -
Kerosene-Type Jet Filel	2 6	<u>`</u>	N 6	4	φ (ن :	oj į	οż	9.0	œί	αċ	2.1	17.1	5.	33	6.	
Kerosene	- o	> 0	on o	4 (7.	5.6	4,5	5.5	6.2	10.8	₩;	4.4	7.5	5.6	10.9	0
Distillate Fuel Oil	ž i č	9 0	ž r	יי פיני	, ic.	- ;	ا ئن	ed	Νį	1. 3	1.5	۲-,	2.0	ر ا	0	Ŋ	· -
Residual Final Oil	3 0	, 0, 0	63.5		7.7	28.6		24.8	26.4	20.4	20.9	30.9	28.3	21.5	28.8	16.9	5
Nanhtha / 400 Deg E Detro Eggal 150	ò	ა 4 დ	υ 4 σ	4.0	æ (50	4.	1,7	3,9	6.9	4.2	4.2	7	5.5	1.7	14.2	6.4
Other Oils > 400 Den F Petrn Feed 185	ó c	5 0	oʻ c	-	<u>د</u> د	0 (4, (αċ	αċ	3.1	ιi	ω	0	8.	0	Ŋ	Ę
Special Nanhthas	, c	o c		5 (νiι	-	0 1	-,	œ	5. 8.	3,9	0	0	4.5	0	က	2.1
Lubricants		Y 0	- ¢	> 6	ΰ	.	<u>.</u>	ιή.	φ	œί	Ψ.	5.0	0	ø.	O.	્ય	4
Waxes	o c	<u> </u>	9 (> c	on, e	-	εci.	7		2.1	1.4	6.5	0	8	ςį	ιvi	<u> </u>
Petroleum Coke	j ć	9 0	νς) t	<u>ن</u>	0 (o.	o,	o.		ci	Ξ	0	cả	•	-	ļ -
Asphalt and Boad Oil	9 6	ó t	9 0	ب ت ر	ю 1	φ (0,6	3.7	89	2.9	3.9	1.2	₹.		6:	4.7	, tu
Still Gas	- G	٠ ٥ ٥	0 I	n c	Q .	6.7		5.	4.0	ω	2.2	20.0	4.6	2.1	6.4	3.2	000
Miscellaneous Droducts	0 F	n (ų ų	N,	4	4.	1,	4,3	2.8	5.0	4.2	2,8	5.6	4,5	98	5.4	4.5
	`.	Z.U	`.	κį	ωį	4.	ωi	κi	- .	.7	κi	o;	0	φ	κį	νi	4
Processing Gain(-) or Loss(+)4	4.	1.1	4.	-2.4	4.5	4.9	-2.8	4.	αq	9.5	-5.2	6.	-1.7	6	6	4 4	7
																ŗ	•

1 Based on crude oil input and net reruns of unfinished oils.
2 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
3 Based on finished avaition gasoline output plus net output of aviation gasoline blending components.
4 Represents the difference between Input and Production.
Note: Total may not equal sum of components due to independent rounding.
Note: See Explanatory 2.
Source: See Explanatory Notes on Data Collection and Estimation.

Table 16. Imports of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels)

			Petroleum Administration for Defense Districts	1 for Defense Districts		
Commodify	_	=	=	۸۱	>	Total
Crude Oil (including lease condensate) 1.2	26,167	14,073	52,794	944	8,334	102,311
Natural Gas Liquids	1,403	3,160	401	321	394	5.679
Pentanes Plus	794	0	32	112	0	941
Liquefied Petroleum Gases	610	3,160	366	208	394	4,738
Ethane	347	1,761	0 tr	0 6	O g	1,761
Normal Butane	158	368	134	5 E	27.5	9.48 9.48
Isobutane	105	246	77	48	143	619
Other Liquids 1	3,210	214	4,851	O	786	9.060
Unfinished Oils 1	1,814	214	4,833	0	5	6,875
Motor Gasoline Blending Components	1,395	O	23	0	771	2,185
Aviation Gasoline Blending Components	0	0	0	0	o	0
Finished Petroleum Products	35,493	904	3,780	147	1,738	42,061
Finished Motor Gasoline	6,876	82	441	47	718	8,165
Finished Leaded Motor Gasoline	2,147	45	214	45	177	2,629
Finished Unleaded Motor Gasoline	4,730	37	227	α	541	5,536
Finished Aviation Gasoline	234	0	0	0	0	234
Naphtha-Type Jet Fuel	447	0	29	0	ao	485
Kerosene-Type Jet Fuel	753	0	0	O	8	843
Bonded Aircraft Fuel	0	0	0	0	0	0
Other	753	0	0	o .	90	843
Kerosene	273	0 (6	0 (0 !	273
Donald Chica Bushara	7,322	88.	- 0	<i>}</i> 6	92.	5882
Other	7 322	738	-	D 65	126	7 985
Residual Fuel Oil	18,223	133	1,480	~	445	20,283
Bonded Ships Bunkers	0	0	0	0	¢.	0
Other	18,223	133	1,480	8	445	20,283
Naphtha < 400 Deg. for Petro. Feed. Use	7	4	1,033	0	0	1,044
Other Oils > 400 Deg, for Petro. Feed, Use	0	0	0	0	0	0
Special Naphthas	415	99	720	(s)	271	1,606
Lubricants	237	41	48	(s)	75	374
Waxes	23	ស	ഹ	O	က	14
Asphalt and Road Oil	91	0	22		0	113
Miscellaneous Products	586	59	-	(s)	-	616
Total Imports	66,273	18,350	61,826	1,411	11,251	159,111
			;			

Crude oil and unfinished oils are reported by the PAD District in which they
are to be processed; all other products are reported by the PAD District of entry.
 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 = Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 17. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January - June 1984 (Thousand Barrels)

,			Petroleum Administration	Petroleum Administration for Defense Districts		15 15 15 15 15
Commodity		-	=	2	>	Total
Crude Oil (including lease condenszte) 1 2	152,633	95,550	320,800	5.939	38 235	612 157
Natural Gas Linuide	0	010				5.0
Pentanes plus	5,503	0/8/17	3,544	3,118	3,319	46,160
Liquefied Petroteum Gases	0,000	01010	724	ଚ୍ଚିତ୍ର	510	7,537
Fhane	5,013	0/8/75	2,819	2,453	2,809	38,623
Propage	- 10	16,037	0	0	0	16,038
Normal Butana	1.00.1	7,448	1,276	1,253	467	12,045
Sobirtane	643	2,631	981	720	1,405	6,380
	824 824	1,754	562	480	937	4,161
Other Liquids 1	20,772	2,152	27,652	0	7.674	5R 249
Unitalished Oils 1	13,223	2,077	26,220	0	3.533	45.052
Motor Gasoline Blending Components	7,548	75	1,432	0	4.141	13.197
Aviation Gasoline Blending Components	0	D	0	0	0	0
Finished Betrolorm Droducte	600	1	;			
Finished Mater Casoline	230,152	5,360	29,519	1,083	9,161	276,746
Figure Modes Resear Capalita	45,728	/99	3,792	340	3,702	54,228
Finished Helegand Mater Constinue	22,032	395	2,800	321	1,224	26,772
Finished Aviation Cooping	23,696	272	992	18	2,477	27,455
Norther Two 1st Cost	0/2	0	0	N	7	279
Karasasa Trac to final	1,862	0	1,665	0	œ	3,536
Booded Airport End	8,4/5	0	0	0	364	8,839
	0 !!	0	0	0	٥	0
Korosoo	8,475	0	0	0	364	8,839
Net Jack Fred Oil	L. 45. C.	0 6	9	٥	(s)	1,458
Donded Ohine Direkora	45,782	1,383	926	647	853	47,631
Other	C C	0 (0	o	0	0
Regidual File Oil	45,732	1,483	926	647	853	47,631
Bonded Ships Brokers	016,431	/ c'	919,11	58	2,737	141,175
Other	124 013	n 11	2 6	D (0 !	0
Naphtha < 400 Dea, for Petro, Feed, Use	309		D C C	o c	2,13/	141,175
Other Oils > 400 Dea for Petro Feed 1 ise	}	5 4	700	> (> +	5,0/5
Special Naphthas	1.970	1 284	5 T T D	> (0	0 70
Lubricants	1 262	2.5	121.0	n +	1,023	9,401
Waxes	<u>i</u> 8	. E	134	- c	124	1,922
Asphalt and Road Oil	196	3 =	t d	> 0	<u>n</u> c	720
Miscellaneous Products	927	303	1.432	> ~	າ ພິ	249
					ì	222
Total Imports	413,336	130,932	381,515	10,140	58,389	994,312

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry. 2 Includes crude oil imported for storage in the Strategic Petroleum Reserve. (s) = Less than 500 barrels. (s) both components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 18. imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels)

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tds	United Kingdom	9,154	93	0	0	368	0	0	0	0	o		398	9,552	318
tem	Virgin Islands	0 0	00	1,297	0 0	1,038	787	273	1,654	2,890	40,	0 0	8,042	8,042	88 8
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ts	Other Eastern Hemisphere Subtotal Other	3,155 56,264	(s) 4,393	872 5,393	183 2,185	722 6,530	1,066	273	288 4,440	529 12,747	1,153	1,312	3,534 39,492	6,689 95,756	3,192
PAD District I 1,313 180 0 0 0 707 1,186 218 0 2,291 3,604 B. Emirates 2,694 165 217 0 0 0 0 0 0 0 382 3,075	Total Imports	102,311	4,738	6,875	2,185	8,165	1,327	273	7,985	20,283	1,606	3,364	56,800	159,111	5,304
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	Saudi Arabia	2,694 0	165 0	21.0	00	00	00	00	00	00	00	817	382	3,076	5 5 7

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels) (continued)

Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD District	strict						
Other OPEC Ecuador	0	c	c	c	c	c	c	c	411	c		411	414	7
	0	0	0	0	0	0	0	0	- 0	0	0	- 0	- 0	<u>+</u> 0
Indonesia	931	0	0	0	0	0	0	0	523	0	0	523	1,454	48
Nigeria	2,886	0 (0 0	0 0	0 9	٥	0 (0	0	0	0	0	2,886	96
Venezuela	2,141 5,958	00	00	00	1,340	SS 25	00	2,825	3,769 4,702	00	271	8,430 9,363	10,571 15,321	352 511
Other														
Angola	2,784	0 6	0 1	0	0 1	0 1	0	0	0	0	0	0	2,784	83
Australia Rehames	-	5 C	00	00	0 0	00	00	o y	o ţ	00	00	0 4	0 0	0 ;
Brazil	00	0	0	0	637	-	o c	9 0	2867	-	o S	2 132	917 5430	7 K
Canada	884	236	w	0	296	0	-	403	481	91	77	1,515	2,399	8 8
Congo	267	0	0	0	0	0	٥	0	167	0	0	167	735	24
Egypt	784	0 0	0 0	0 0	٥	0 0	0	0 0	0	0 (0	784	92
Mexico	2 833	o c	5 C	873	<u>.</u>	> c	5 C		> C	> C	(s)	191	2 261	t g
Netherlands	} -	• •	0	90	206	0	0	746	0	98) (g)	1.287	1.288	5 6
Netherlands Antilles	0	0	603	219	562	188	0	367	4,613	0		6,552	6,552	218
Norway	2,533	0 (0 (0	0	0	0	0	0	0	0	0	2,533	84
Oman	497	00	-	0	00	00	0	0	0 0	0	00	00	497	4
reopie s neponic oi cimia Peni	90	9 0	0	o c	- -	0	> C	>	456	> C	- -	7 Y	650 656	2 ¥
Puerto Rico	0	0	215	0	722	0	0	0	9 0	146	228	1.31	1.311	4 4
Romania	0	0	0	303	395	0	0	٥	389	0	0	1,087	1,087	36
Spain Trinidad and Tobaco	0 9	00	0 0	00	240	00	0 0	00	00	00	00	240	240	ထင္ဂ
United Kingdom	3.052	29.5	0	0	368	0	0	0 0	0	o c	(8)	397	3.449	1.50
Virgin Islands	0	0	774	0	1,038	787	273	1,654	2,854	0	-	7,378	7,378	246
Zaire	199	0	0	0	0	0	0	o	0	0	0	0	199	7
Order western Henisphere	c	_	c	c	c	c	c	c	622	c	c	622	623	7
Other Eastern Hemisphere	534	0	0	0	613	0	0	250	366	0	582	1.811	2.345	78
Subtotal Other	16,203	265	1,597	1,395	5,536	975	273	3,790	12,335	198	889	27 253	43,456	1,449
Total Imports	26,167	610	1,814	1,395	6,876	1,200	273	7,322	18,223	415	1,976	40,106	66,273	2,209
							PAD District II	trict 11						
Arab OPEC Algeria Subtract Arab OPEC	486	00	0.0	00	00	0.0	00	٥٥	00	06	0.0	0.0	486	6.4
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Other OPEC	979	c	c	c	c	c	c	c	c	c	c	c	939	ę. *
Nigeria	1,363	000	000	000	000	000	000	000	000	000	000	9 0	1,363	7 4 6
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See footnotes at end of table.

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels) (continued)

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Traffile								PAD Di	strict II						
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Decided Head of Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges Cheeges	France	0	0	0	0	00	0	> 0	0	00	00		0 (8)	492	16
Continue	Mexico	4,304	00	00	00	00	0 (0	0	0	0			4,304	143
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Particle Transference 11,852 3,150 214 0 82 0 0 438 133 199 (9) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hemisphere	0		0	0	0	0	0	0	0	0	0	٥	o	c
Imports	Other Eastern Hemisphere Subtotal Other	0 11,852	(s) 3,160		00	9 0	00	00	o 85	133	199	(s)	(s) 4.277	(s)	(s)
OPEC 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101 1,101	Total Imports	14,073	3,160	214	0	85	0	0	438	133	199	52	4,277	18,350	612
OPEC Name Name <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PAD Dis</td><td>trict III</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								PAD Dis	trict III						
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af Arabie 3.288 0 0 0 0 792 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kuwait	1068	> C	o c	0 0	0 0	0	0	0 (0	0	0	0	5	က
And Arab Emirates 550 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Saudi Arabia	9,268	0	0 0		> c	o c	0 0	0 0	795	0 0	0 (795	1,860	ଫୁ
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tidor 701 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>Subtotal Arab OPEC</td> <td>14,457</td> <td>o</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>792</td> <td>00</td> <td>964</td> <td>1,756</td> <td>16,212</td> <td>240</td>	Subtotal Arab OPEC	14,457	o	0	0	0	0	0	0	792	00	964	1,756	16,212	240
udor 701 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>Other OPEC</td> <td></td>	Other OPEC														
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rotal Other OPEC	Gabon	719	0	0	0	0	0	0	0	0	0	-	0 0	5 5	2 23
tracela 4,994 0 227 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Indonesia	2,890	0 0	0 8	0 (0 1	0	0	0	406	0	0	406	3,297	1 1 1 1
ortal Other OPEC	Venezuela	4,743 4,994	o c	927	> c	o 66	0 0	0 0	0 0	0 ;	0 (0 (588	3,031	101
la	0	12,047	0	1,265	0	227	00	0	00	651 651	00	00	1,449 2,144	6 444 14, 191	215 473
4 694 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other														
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1 1 1 1 1 1 1 1 1 1	Pahamas	0 0	0 (o ;	0 (0	0	0	0	0	0	48	48	48	~
12,394 366 907 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Brazil	> C	> c	6 4 c	o c	0 ;	0 0	0 0	0 (0 1	۰;	0	784	784	56
12,394 366 907 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Canada	0	0	0	0	7 4 0	0	0	o c	00	37		552 (e)	552 (e)	ω (
12,394 366 907 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Congo	0	0	0	¢	0	0	0	0	0	0	0	0	C	Ē
12,394 366 907 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	France	0	0	0	0	٥	0	0	0	0	0		(6)	@	· 6
nds ————————————————————————————————————		0 ;	۰;	0	0	0	0	0	0	0	0		0		
nds Antilles		12,394	389	904	0 (Φ,	හි	0	-	0	<u>(s)</u>	86	1,389	13,783	459
A shittless	Netherlands))	0 9	0 (0 1	0	0	0	0	0	46	46	46	2
lico	Nominal Alterior	5	5	462	ə (ο ·	0	0	0	0	0	0	482	482	ð
1,376 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Puerto Rico	28°. 48°. ⊂	> c	5 C	> c	00	00	0 0	0 0	0 0	0 8	0	0	1,984	99
6,102 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1.376) O	o a	> 🖒	ÞC	5 C	> C	> c	> c		0 0	eg 6	233	æ ;
		6,102	0	0	Ф	0	0	0	0 0	o c	> c) (4)	1,376	9 6
									,	٠	,	E	(£)	201.0	SOS

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1984 (Thousand Barrels) (continued)

Source	Crude Oil 1	947	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Disti. Puel	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- Ieum	Total (Daily Average)
							PAD District III	Strict III						
Other Virgin Islands	0 970	00	523 0	00	00	00	00	00	37 0	104	00	664	664 970	32
Hemisphere Other Eastern Hemisphere Subtotal Other	149 2,621 26,290	0 0 386	0 872 3,567	0 8 8	0 0 214	200	000	00 **	0 0 37	54 292 720	(s) (s) 180	54 1,182 5,133	203 3,803 31,423	7 127 1,047
Total Imports	52,794	366	4,833	18	441	59	0	-	1,480	720	1,144	9,032	61,826	2,061
							PAD Di	PAD District IV						3
Other Canada	944	208	0	0	47	0	0	97	8	(s)		468	1.411	47
rrance Other Eastern Hemisphere Subtotal Other	0 0 944	0 508 708	000	000	0 0 4	•••	000	0 0 76	000	0 (s)	0 0 13	0 0 468	0 0 1,411	0 0 0 4
Total Imports	944	208	0	0	47	0	0	26	CV	(s)	113	468	1,411	47
							PAD District	strict V						
Arab OPEC Algeria	000	000	000	000	000	000	000	000	000	000	000	000	000	000
Other OPEC Ecuador Indonesia Venezuela Subtotal Other OPEC	0 7,144 214 7,358	0000	0000	0000	0 67 0 67	37 0 37	0000	<u>០ ជ ០ ជ</u>	0 205 0 205	235 0 0 235	0 (s) (s)	556 556 556	0 7,700 214 7,914	257 7 264
Other Australia Brazil	600	000	oof	000	991 0	000	000	50 29	<u>0</u> 0 1	00	00	227	826 0	58 0
France Malaysia Mexico	000	, , ,	000	000	6 0 0 0 0	0000	0000	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	∕ 0 ₹ æ	ယ္က ဝ ဝင	(§) (§)	(s) (s) 155	878 (s) 155	(s) 29 29 5
People's Republic of China Puerto Rico United Kingdom	000	000	000	608 0	267 0 0	000	000	000	000	000	ကက္ဝေ	876 50 0	876 50 0	(s) 23 0
Other Eastern Hemisphere Subtotal Other	0 976	384	o t ō	165 77	109 651	4 2	00	38 114	240 240 240	ဝမ္တ	78	541 2,362	541 3,337	# E
Total Imports	8,334	394	15	144	718	88	0	126	445	27.1	79	2,918	11,251	375

¹ Includes crude oil imported for storage in the Strategic Petroleum Reserve.
2 Includes aviation gasoline, waxes, asphalt, lubricants, pentanes plus, naphthas less than 400 degrees F, other oils greater than 400 degrees F and ous products, (s) = Less than 500 barrels or less than 500 barrels of Components durance: Se ource: Se or Data Collectir

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Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels)

€	ŀ	ď	, 	c.	ந்	90	Ĭΰ		2,5	. Q1	ίζι Έ	<u> </u>	61	26	.230		90	ខ្ល	92	, (2 0	o [ž į	n F	2 -	-	0	Ø	737	23	227	110	7 8	5 6	45	9	17	79	(s)	357	319	ક્ર	48	
Total (Daily Average)		316	5	4	35	1	825		ū	. 7	ř				-																											e.	2	
Total Petro- leum		3	102	7 589	65.412	10,00	150,176		40.430	20,432 B 841	50,05	120.0	47.536	95.815	223,811		16,435	4,266	16,661	590	9,538	0 00	11/,668	6,337	740,	2 5	1,749	409	134,122	14,327	41,372	20,023	2,231	90,0	4, 0 1, 0	7 126	3.123	14.400	-	65,005	58,022	5,526	8,742	
Total Prod- ucts			040,12	200	200,0	2000	4 00 4 20 05 4 00 4		0	288	000	206,0	1 725	98.0	43,003 62,255		568	1,477	16,661	0	9,537	0	55,141	910	ا	2 5	1 749	409	13,089	13,283	41,372	817	1,239	4,974	4,695	7 1 26	123	865	0	5,626	58,022	0	8,170	
Other T Prod- P ucts 2 u			3,226		5		1,580		(0 4	⊃ ç	2 0			979		c	135	2,111	0	54	o	2,350	0	Ö ;	<u>-</u> '	> c	0 0	219	5 5	104	0	0	m	0 ;	202,1	ָ בַּ	āξ	20	709	235	o	4	
Special Pa			2,046)	0 (o (O 9	2,040		0 ;	9 !	467	> 0	٠ <u>و</u>	ညီ ထို သူ	}	c	o C	0	0	202	0	1,719	0	0	(S)	-	> C	- -	33.	6	0	0	347	0	2,212	3 0	7 (- 0	95	255	0	203	
				0	.685	.013	1,745			1,392	246	3,973	Ď į	S !	23,473	2 - '0	0	0 00	4 749	0	5.079	0	4,794	910	0	0	13	94,	7.08	988 880	25.198	0	1,239	0	4,322	0 ;	389	7 0	n C	922	25,088	0	5.949	<u>;</u>
I. Resid.	1 22				න ර			.941 Br 18		0		566	0		10,044 20			⊃ દુ			0				0	0	0 (o 8	3 8	1,090	2,197		0	0	0	1,011	0 5	57.	- C	, E	10.628	0	43	2
Distil. Puel	PAD Districts			0	0	0	٥	N		0					o 0		,	0 (_		o C	o 0		0	0		0				o c		0	0	0	0	0	> (5	.		0	Œ	,
Kero- sene	A P			_	_	_	_	m		0	0	80	0	0	φı	τ ύ		0 9	ω s	חַ כ	o c	o c	, ac		0	(8)	0	01	٠;	244	9 6	451	. 0	0	0	253	0	1,016	0 0	با د ا	27.0	0	c	>
Jet Fuel		!	327	0	0	0	22	24		J		128	_		2,206	2,33		0 ;		8									(OÙ T	— «	04	ī			L		7						
Finished Motor Gasoline			434	0	0	0	0	434		0	0	913	٥	0	10,115	11,029		0	311	0 0	7 221	162,4	2 26.1	0	0	161	0	0	85	439	4,734	50,0	00	664	0	2,470	917	967	0 (0,0	2,194	20	c	•
0 0 1	Sin Sin Sin Sin Sin Sin Sin Sin Sin Sin		c	. c	0	c	546	546		c	0	0	0	0	699	699		0	0	0 0	- (> 0	, ,		0	0	0	0	0	3,511	349	4 7 0	o C	3 704		0	2,513	0	0	0	370	00	(5
Unfin- ished	-		253	}	, c	5	795	2,167		c	s c	1 787		1.582	2,788	6,156		0	0	5,538	0	00	0 60	, 0, 0, 0,	-	· (g	0	0	125	5,383	0 0	6,983	5 C	25.0	37.5	1.125	252	218	13	0	737	00/0		1,699
UPG U			Ġ,	9 0	5 0	2 0	3 0	683		c	o ¢	1 256	2	c	0	1,356		0	96	0	0 (0	2	34,544	> C	Œ	0	0	0	1,472	(s)	8	(S)) (o C	0	0	0	0	0	317	00		127
Crude Oil 1			6	35,383	202	4,904	62,777	117,923		9	9,040	0,000	30,132	1,0,7	45.947	61,556		15,867	2,789	۵	260	8 1	0 !	62,547	5,427	2+0,t	0	0	0	121,033	1,045	0	19,206	ກ ເ ກ ເ	200,1	, С	0	0	13,534	Ø	59,380	5.526)))	572
Source				Algeria 3	•	•		United Arab Emirales 11 Subtotal Arab OPEC 11		Other OPEC	Ecuador	1			Nigeria	ther OPEC	100	<u></u>		Ваћатаѕ	Bolivia	Brazil			Congo	Egypt	France	iberia			:	Netherlands Antilles	Norway	Oman	People's Republic of China	Peru	Pueno nico	Coois	Trinidad and Tobado	Tinisia	United Kingdom	Virgin Islands	Other Western	Hemisphere

See footnotes at end of table.

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

								ľ	-		-			
Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Totai Petro- leum	Total (Daily Average)
							All PAD Districts	istricts						
Other Other Eastern Hemisphere Subtotal Other	21,764 333,679	2 36,585	5,346 36,729	1,033	6,972 42,765	1,473 9,492	60 1,458	2,379 34,327	8,861 93,923	1,145 6,761	1,960	29,230 286,646	50,994 620,325	280 3,408
Total Imports	613,157	38,623	45,052	13,197	54,228	12,375	1,458	47,631	141,175	9,401	18,015	381,155	994,312	5,463
							PAD District I	strict I						
Arab OPEC Algeria	9,165	180	0	0	434	327	0	2,890	11,634	218	743	16,426	25,591	141
Kuwait	253	0 0	0 0	0 0	00	o c	o c	00	0 6	o c	0	1 370	253	1 7
Saudi Arabia	436	30	3 0	54°	0	0	0	0	434	0	1,338	2,318	2,754	. <u>1</u>
Subtotal Arab OPEC	21,893	683	867	546	434	327	0	2,890	12,068	218	2,081	20,114	42,006	231
Other OPEC	302	0	0	0	0	0	0	0	1,392	0	0	1,392	1,694	o
Cotton	1 575	· C	c	0	0	0	0	0	246	9	0	306	1,881	9
Indonesia	13,694	0	228	0	0	0	0	0	1,014	0	0	1,242	14,936	82
Nigeria	14,455	0	0	0	0	0	0	ፍ	8	0	0	140	14,595	8
Venezuela	11,879	00	000	0 0	8,877	2,206	Ф С	10,044 10,094	22,597	o 0	339 339	44,064	55,942 89,049	307 489
Subtotal Other OPEC	4 0 1	>	9	•	ò	1	•	000		}	}	: :		}
Other Angola	9,574	0	0	0	٥	o	0	0	568	0	0	568	10,142	56
Australia	0	0	0	0	0	0	0	0	746	0	0	746	746	4 1
Bahamas	0	0	481	0 (0 0	629	8	3,256	4,749	00	08 1- (3	9,394	9000	52
Brazil	2 6	15.00 15.00	၁ ဗွ	00	3,076	00		4.388	3,181	110	1,060	11,729	18,189	3 당
Gondo	2,432	50	30	0	0	0	٥	0	910	0	0	910	3,342	18
Egypt	1,168	0	0	0	٥	0	0	00	00	Б	o +	0 5	1,168	φ.
France	0 0	(S)	00	0 0	161	o c	5 C	5 C	, <u>t</u>	(A)	- 0	2 5	2 5	- +-
Ghana	> c	5 C	o c	,	0	00	0	0	1,749	0	0	1,749	1,749	0
Movico	15.078	0	0	3,216	(S)	215	0	885	328	0	83	4,678	19,756	109
Netherlands	-	(S)	0	190	4,734	196	0 0	6,171	988	မ္က င	4- L	12,316	12,317	3 83
Netherlands Antilles	0 6	0 (5,984	426	567.4	ç a	> C	0 0 0 0 0 0 0 0 0	000	0 0	- 0	456	13,508	74
Norway	500,51	o c	-	o c	oc	3 0	0	0	585	0	0	585	1,578	σ
People's Republic of China	1,305	0	0	0	φ	0	0	0	0	0	(s)	(S)	1,305	7
Peru	2	0	0	0	0	0	0	٥	4,060	0 6	0 5	4,060	4,062	3 5
Puerto Rico	0	0 (1,125	0 6	2,470	223	-	2,0	200	0 e	2870	6,900	5,904	3 8
Romania	00	> c	7 7 7 7	יאָלאָ איל	967	825	0	123	782	9 0) (S)	2,697	2,697	15
Spain Tobado	2.290	0	5. 5.	0	0	, o	0	0	829	7	0	849	3,139	17
Tunisia	N	0	0	0 9	0 0	٠,	0 0	0 5	0 33		28.0	0 8	33 726	(S)
United Kingdom	29,540	316	471	Ð	2,067	154	5	3	2	(s)	}) ,	71.100	}

See footnotes at end of table.

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

Total Total Petro- (Daily eum Average)		53,559 294 2,768 15	6,726 37 22,083 121 282,282 1,551	413,336 2,271		730		6 6 6 6 6	7,90b 43		2,430 0		5,035 28		7,922 44			218 1	9,815 439	27	w.		1,044 6		701 F	1,730			409 2 115,103 632	130,932 719
Total To Prod- Pe ucts le		53,559 53	6,726 6 17,914 22 193,445 282	260,703 413				00		,	- -				203			218		0		M			 -> C) (35,382 13(
Other Prod-		00	8 1,053 6,648 19	9,068 24			0	00	>	(-	o c	0	0	0		0	0		0	(s)	0	0	٥ د	-	·	ć	o (510	510
Special Naphthas		00	0 455 1,692	1,970		_	0	00	>	(> c	0 0	0	0	0		0	0	1,284	ο.	0	ם	0 (-	o c	0	c	o (1,284	1,284
Resid.		24,752 0	5,949 6,346 87,505	124,913			0	0 0	>	Ċ	o 0	0 0	0	0	0		0	o	1,517	0	0 1	0	0 (-	o C	0	Ċ	-	0 1,517	1,517
Distil. Fuel	District !	10,628	32 2,185 30,808	43,792	AD District II	c	0	00	>	ć	0	o ¢	0	O	0		o	0	1,383	0	0 (D +	Б (- 0	o c	0	c	-	1,383	1,383
Kero- sene	PAD	9 1,291 0 0	0 0 7 60 4 1,451	7 1,451	PAD C			00					0																00	0
Jet Fuel		4,219 0	0 627 7,804	10,337					•			_		_	_		J	_	_	_			,	- `	-		•	., (J
Finished Motor Gasoline		9,518 0	6,382 36,417	45,728		c	0	00	5	Ċ	ə c	9 6	0	0	0		0	0	299	0	0 (Ω 1)	> C	o 0	0	c	9 6	667	667
Gasoline Blending Compo- nents		00	800 7,002	7,548		6	0	00	>	C	0 0	, 0	0	0	0		0	0	75	0	0	-	-	-	9 0	0	c	5	75	75
Unfin- ished Oits		3,150 0	611 4 12,129	13,223			0	00	0	ć	0 0	0	203	0	203		0	218	1,655	0	0	5 ()	-	0 0	0	c	> 0	1,873	2,077
LPG.		00	127 2 1,990	2,673		C	0	00	•	c	O C	0	0	0	0		0	0	27,869	0	Ф.	~ (5	0 0	00	4~	c		(s) 27,870	27,870
Crude Oil 1		2,768	4,169 88,837	. 152,633		4.739		7.075				70			7,719		0	0	44,859	1,427	0 0	510,42	1024	2000	5.107		c		79,924	95,550
Source		Other Virgin Islands	Hemisphere	Total Imports		Arab OPEC Algeria	Saudi Arabia	United Arab Emirates		Other OPEC	Indonesia	Iran	Nigeria	Venezuela	Subtotal Other OPEC	Other	Australia	Bahamas	Canada	Congo	France	Mexico	Netrierianos	Noi way	Trinidad and Tobado	United Kingdom	Other Western	remisphele	Subtotal Other	Total Imports

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

PAD District III 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21545 24 24 24 24 24 24 24	Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 21546 2154	1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,154 1,15								PAD Di	strict III						
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		United Kingdom	28,112	ο .	266	291	127	171	0		0	156	456	1,437	29,550	162
	Hemisphere 15,784 0 1,088 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Virgin Islands	0	0	3,638	0	0	0	0	0	335	255	235	4.464	4,464	25
Hemisphere 15,784 0 1,088 0 0 0 6 12 0 203 136 1,444 2,017 Hemisphere 15,784 0 4,598 18 0 693 0 56 1,441 610 103 7,520 23,303 Hemisphere 15,784 0 4,598 18 0 693 0 56 1,441 610 103 7,520 23,303 Hemisphere 15,784 0 4,598 18 7,520 23,303 Hemisphere 15,784 0 4,598 18,750 23,303 Hemisphere 15,784 0 1,469 21,527 764 2,800 1,445 6 903 3,314 3,225 3,815 39,262 189,760 Hemisphere 15,784 0 4,598 18,750 23,303 Hemisphere 15,784 0 4,598 18,775 24,598 18,775 24,598 18,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775 24,775	Hemisphere 15,784 0 1,088 0 0 0 6 12 0 203 136 1,444 Hemisphere 15,784 0 4,598 18 0 693 0 56 1,441 610 103 7,520 2 Hemisphere 15,784 0 4,598 18 0 693 0 56 1,441 610 103 7,520 2 Hemisphere 15,784 0 4,598 18 0 3,314 3,225 3,815 39,262 18 320,800 2,819 26,220 1,432 3,792 1,665 6 956 11,919 5,121 6,785 60,715 38	Zare	2,758	0	0	0	0	0	0	0	0	0	0	0	2,758	1 5
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	320,800 2,819 26,220 1,432 3,792 1,665 6 956 11,919 5,121 6,785 60,715	Subtotal Other	149,499	1463	527	764	280	1 093 5 4 7	> α	ရှိ ရှိ	1,44	925	103	0,520	23,303	128
	320,800 2,819 26,220 1,432 3,792 1,665 6 956 11,919 5,121 6,785 60,715		5	}		5	1	į)	3	, 1	3,453	0,010	\$02.65°	20,'00	3,
		Total Imports	320,800	2,819	26,220	1,432	3,792	1,665	ဖ	926	11,919	5.123	6.785	60.715	381.515	2,096

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - June 1984 (Thousand Barrels) (continued)

Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distit. Fuel	Resid. Puel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD District IV	strict IV						
Other Canada	5,939	2,453	0	0	340	0	0	647	88	ო	670	4.201	10.140	55
FranceOther Eastern Hemisphere	00	00	6 0	00	00	00	00	00	00	00	00	00	00	00
Subtotal Other	5,939	2,453	Q	0	340	0	00	64,	89	o m	670	4,201	10,140	၁ဖွင့
Total Imports	5,939	2,453	0	0	340	0	0	647	89	ო	670	4,201	10,140	26
·	ļ						PAD District V	strict V						
Arab OPEC	3	•		,										
Saudi Arabia	934 450	o c	55 55 57 57 57 57 57 57 57 57 57 57 57 5	00	0 0	00	0 0	00	00	00	00	253	1,187	۲,
United Arab Emirates	0	0	269	0	0 0	9 0	o c	0	> C	o c	> C	20.00	525	
Subtotal Arab OPEC	934	0	774	0	0	0	0	00	00	0	00	77 74	1,707	- თ
Other OPEC														
Ecuador	360	0	0	0	0	0	0	0	٥	0	0	0	360	N
Monesia	27,048	0 (1,559	0 (913	128	0	566	1,239	467	-	4,574	31,623	174
Verlezuela	413	o (0	ο,	246	0	0	0	0	0	0	246	629	4
Subtotal Other OFEC	17,877	0	1,559	0	1,159	128	0	566	1,239	467	•	4,821	32,642	179
Other														
Australia	2,788	96	0	0	311	36	0	29	87	0	(S)	296	3.384	19
Brazil	0 (0	0	0	0	0	0	0	0	0		0	0	0
Conode	2 0	0	0 (0	0	0		0	0	0	0	o	0	0
France	007,0	7,0,7	ဂ္ဂ	> (882	no ((S)	114	_ `	130		3,998	9,287	51
Malaysia	9 0	> C) C	o c	o or	→ 1 C	> c	>	>	00	(S)	(S)	(2)	(S)
Mexico	0	98	0	0	? -	- C	o c	8 ₽	8 8	0) - -	4 6	4 6 5	N T
Netherlands	٥	(8)	0	0	0	0	· c		? <	o c		7 0 (3) (4)	- [3
Netherlands Antilles	0		0	0	0	4	0	0	192	0	67	299	560	<u>5</u>
Norway	0	٥	٥	0	0	0	0	0	0	0	0	0	0	0
People's Republic of China	0	0	321	3,704	599	0	0	0	0	347	ო	4,974	4.974	27
Puerto Fico	0	ο,	0	0	0	0	٥	239	0	0	8	288	288	N
Homania	o c	0 0	00	252	0 (0 (0	0	0		O	222	222	*-
Other Eastern Hemisphere	404	ତ	77.0		0 00	<u> </u>	-	2 0	0 5	(g)	0 8	(S)	(S)	(s)
Subtotal Other	9,481	2,809	1,200	4,141	2,542	2 42	(s)	587	1,498	557	982 882	3,795 14,560	24,040	8 8 8
Total Imports	38.235	2.809	3.533	4.141	3 702	372	9	253	2 737	1 0 2 3	6	20.454	2000	ç
		22.6	}}(;	F	1,1,2	;	(0)	2	4,10,	ניבט,ו	900	50,104	20,000	170

Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Includes aviation gasoline, waxes, asphalt, lubricants, pentanes plus, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.
 (S) = Less than 500 barrels or less than 500 barrels per day.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 20. Exports of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels)

		Petroleui	Petroleum Administration for Defense Districts	n for Defense	Districts	
COLUMBRICA	_	=	111	W	>	Total
Crude Oil (including lease condensate) 1	0	428	0	0	6,237	6,665
Natural Gas Licuids	4	425	6	c	0	
Deptace Disc	<u>.</u>	3 5	200	5 6	6	, co'.
Tendines Flus	> 4	2	5 6	- (o (6/
Ethana	9 (5)	440 7.7	58	> c	386	1,579
Propane	80	32	796	9 0	74	1010
Normal Butane	80	79	135	0	112	333
Isobutane	0	79	0	0	٥	62
Finished Motor Gasoline	28	0	92	0	381	514
Naphtha-Type Jet Fuel	0	0	81	0	0	83
Kerosene-Type Jet Fuel	0	0	155	0	36	191
Kerosene	4	0	-	0	(s)	ဖ
Distillate Fuel Oil	CQ	0	472	0	1,114	1,589
Residual Fuel Oil	0	0	1,106	0	4,169	5,275
Naphtha < 400 Deg. for Petrochem. Feedstock	49	ထ	114	_	39	211
Other Oils > 400 Deg. for Petrochem. Feedstock		45	740	0	59	841
Special Naphthas	ဖ	ო	38	0	243	291
Lubricants	152	3	216	*	9/	476
Waxes	4	<u>(e</u>	59	0	4	37
Petroleum Coke	221	457	4,170	0	3,214	8,062
Asphalt	2	-	(s)	,	(s)	4
Miscellaneous Products	4	N	4	(s)	ო	23
Total Product Exports	527	1,069	8,134	e	9,526	19,259
Total Exports	527	1,497	8,134	ю	15,763	25,924

Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.
 (s) = Less than 500 barrels or less than 500 barrels per day.
 Note: Total may not equal sum of components due to independent rounding.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 21. Year-to-Date Exports Of Crude Oil And Petroleum Products By PAD District, January - June 1984 (Thousand Barrels)

A grant and a second		Petroleur	n Administratio	Petroleum Administration for Defense Districts	Districts	
Authorition		=	=	2	>	Total
Crude Oil (including lease condensate) 1	0	2,624	(s)	0	33,369	35,993
Natural Gas Liquids	213	3,305	4,460	(8)	1,037	9,016
rentanes Flus Liquefied Petroleum Gases	0 6 13 0	493 2 812	4460	0 (s)	1.037	493 8 523
Ethane) (S)	986	(s)	o ì	0	986
Ргорапе	92	831	3,536	(s)	416	4,876
Normal Butane	121	502	924	(s)	621	2,168
Sobutane Enished Mater Coording	٥ ;	493	0	0 (0	493
Mostes The 1st End	ופר (4	292	0	464	891
Naprina-type Jet Fuel	(8)	0	175	0	0	175
Kerosene-Type Jet Fuel	176	139	156	0	299	269
Kerosene	4	٥	2	0	(s)	17
Distrilate Fuel Oil	417	56	2,335	(s)	5,725	8,533
Hesidual Fuel Oil	433	0	10,799	0	17,681	28,913
Naphtha < 400 Deg. for Petrochem. Feedstock	357	53	726	9	150	1,292
Other Oils > 400 Deg. for Petrochem, Feedstock	2	131	2,627	0	263	3,022
Special Naphthas	4	29	190	m	247	546
Lubricants	752	177	1,878	7	277	3,092
Waxes	28	ო	177	0	ន	230
Petroleum Coke	1,356	1,183	20,606	4	14,213	37,362
Asphalt	4	4	12	ო	무	20
Miscellaneous Products	9	;-	9	(s)	18	180
lotal Product Exports	4,023	5,139	44,495	ន	40,407	94,087
Total Exports	4,023	7,763	44,495	g	73,776	130,080

Texports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(S) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 22. Exports of Crude Oil and Petroleum Products by Destination, June 1984 (Thousand Barrels)

Destination	Crude Oil 1	LPG	Finished Motor Gasoline	Jet Fuel	Dist.	Residual Fuel Oil	Special Naphthas	Lubri- cants	Waxes	Petro- leum Coke	Asphalt	Other ²	Total	Total (Daily Average)
Argentina	0	0	0	155	0		0	4	(8)	(s)		159	329	Ξ
Australia	00	ი დ	(s)	00	00	00	n c	<u>4</u> 0		126 C	9	S 29	177	9
Bahrain	0	0	0	0	0	0	(s)	(s)	0	0	0	(S)	(s)	ভ
Belgium & Luxembourg	00	- c	0 0	00	00	0 0	Z (S	- -	(S)	792	(S)	(s)	796	27
Cameroon	0	00	00	0	0	0		(§)	0	0	0	(s)	(s)	(E)
Canada	428	447	57	(S)	<u>.</u>	<u>e</u> 5	ωo	4 5		624	ار ا	152	1,827	91
Chips (Taiwan)	o c) (§)	å o	<u>.</u> 0	5 5	1.605) (s)	<u>.</u> 5	ହେଉ	হ ত	<u>(a)</u> (g)	<u>8</u>	1,757	~ 65
Colombia	0	•	0	0	0	0		9	5			2	52	-
Costa Rica	0 (© ©	00	00	0 (00	ო	4	(e) (s)	27 9	(s)		8,	, .
Denmark	00	2 C	0	0	00	• •) C	(S)	<u>(8</u>)	o c	.	(s) (s)	- 2	(8)
Ecuador	0	8	0	٥	0	0	0	· -	(E)	0	(s)	(S)	2 (٠ ا
Egypt	0	0	0	0	0	0		សេ	(S)	0		(8)	ָ מּי	<u>s</u>
El Salvador	0 0	 ⊂	o c	o c	o c	-	(g)	on (g)		> C	00	- (s)	2 -	(S) (S)
Finland	0	0	0	0	0		0	01 E	- 0	1,006	0	171	1,180	6E
French Pacific Isl	0	0	0	0	0	320	0	(s)	٥	0	0	0	350	12
Ghana	0 0	0 (0	00	00	00	00	0	00	00	00	(S)	<u>ئ</u>	<u>s</u>
Greece	5 6	၁ ဇူ	> C	5 C	> C	> C	o ۸	٠ ا) (§	0	0	∂	28 (E)	
Guinea	0	3 0	0	0	0	115	0	, -	2	0	0	(E)	116	1 4
Honduras	0	(s)	(s)	0	0	0		o		0		-	F	(s)
Hong Kong	0	0 0	-	0	0 0	00	<u>s</u>		(S)	00	<u>@</u>	<u>(8</u>	CV 0	<u>ن</u>
India	- 0	> C	> C	9 0	9	-	5 C	G	> C	> C	<u>s</u>	o w	۲.	e (6
Indonesia	0	0	0	0) (Ģ	0	0	0	0	0	0	. 0	0
Israel	0	Ø.	0	0		0	(s)	<u>s</u>	<u>(</u>	0 6	00	(g)	- ;	(s)
Italy	0	જ જ	00	0 0	(S)	00	0 0	- 6	- - c	622,	٥ و	ב כ	7,442	φ, φ,
lyory Coast	> C	÷ 5	00	0	<u>,</u> 0	220	ි (§	(e) 16	0	0 0	î	-	268	10:
Japan	0	0	0	0	528	1,300	259	4	CI .	2,270	(s)	27	4,431	148
Jordan	0 (0	0 0	0	00	0 2	0 5	- - ư	0 +	၀ ပူ	Ф с	0 5	- C	(s) 10
Korea, Hepublic of	> c	- c	5 (2)	0	0	n 0		2 01	- 0	(S)	0	50	2 0	(S)
Lebanon	0	0)	0	0	0	0	-	0	0	0 (0 (- 0	(s)
Liberia	00	0 0	0 0	00	00	00	00	0	0 (8)	o c	o (s)) (§	→) (§
Malaysia	0	825	2 4	38	0	0	-	5	т С	20.	0	දි	980	33
Netherlands	0	•	0	0	٥	0	ი (E	(s)	652	<u>(</u>	20.0	720	2 t
Netherlands Antilles	00	Ø 9	9,0	% c	24 24 25	508	o c	(s)) (S)	S S) (§)	<u> </u>	485	16
Nicaranta	0		3	0	2 0	0	m	(s))			(S)	က	(s)
Nigeria	0	0	0	0	٥	0	0	ın.	(s)	0 9	0 (- 3	ស ខ្មុ	(s)
Norway	00	0	00	00	o c	0 0	00	Ø @	00	200	0	হ ত	(s)	ဂ (၆)
Panama	0	(3)	0	0	289	53.			(s)	16	0	(E)	874	53
Pen	0	0	0	0	0	0	<u>(S</u>	2 .	۰ :	0 0	0 0	<u>®</u>	~ (<u> </u>
85	0 48	ο α	00	00	0 (8)	0 0	(S)	50 7	(s)	0		7 ==	506	(e) 17
Rep. of South Africa	9 6	0 0	0	0	<u> </u>	0	0	6	60	0	(S)	-	24	-
Can fortuntee at and of table			1											
ספב וסחווסופס מי בינה כו ייייי														

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Table 22. Exports of Crude Oil and Petroleum Products by Destination, June 1984 (Thousand Barrels) (continued)

			Finished	3	Dist.	Residual	-			Petro-		-		Total
Destination	Orde 1	LPG.	Motor	F _{Le}	<u>F</u>	<u>la</u> E	Naphthas	cants	Waxes	leum	Asphalt	Other2	Total	(Daily
Saudi Arabia	0	4	0	0	0	0	0	10	(S)	0	c	"	1.	Aveigue!
Singapore	0	7	0	0	5	344	4	84	(6)	0	(8)	4	507	17
Spain	0	0	0	0	0	0	0	-	(S)	391	0	59	451	4
Surinam	0	0	0	o	0	0	0	(9)		0	0	(s)	(S)	: (s)
Sweden	0	0	0	0	0	0	0	64	<u>(s)</u>	287	(S)	-	289	, 10
Swizerand	0	0	0	0	0	0	0	9	(8)	0	0	(s)	<u>(s)</u>	(8)
Thailand	0	0	30	0	0	0	0	c	0	0	0	<u>(9</u>	35	;
Innidad and Tobago	0	4	0	0	0	0	0	,	0	0	O	<u>s</u>	5	-
Turkey	٥	0	0	0	(S	0	0	જ	<u>(5)</u>	26	0	30	99	۰ ۵
United Arab Emirates	0	©	0	0	0	0	(s)	[-	0	9	0	9	28	N
United Kingdom	0	-	0	0	•	0	(<u>s</u>)	-	(s)	(s)	(s)	ო	7	(S)
0.5.5.H.	0	0	0	C	0	0	0	35	0	0	•	0	32	-
Uruguay	0	0	0	0	0	0	o	•	0	0	0	(8)	-	(S)
Venezuela	0	37	0	0	0	0	(s)	ςV	(s)	114	0	(S)	153	ici
Virgin Islands	4,841	9	0	0	0	372	0	(s)		0	Q	·	5.213	174
West Germany	0	0	0	0	0	0	0	ณ		23	0	8	125	4
Yugoslavia	0	o	0	0	0	0	0	(8)	0	22	٥	(8)	55	٠,
Other	931	თ	<u>(s)</u>	0	0	0	(s)	φ	(s)	94	0	52	1.092	92
lotal	6,665	1,579	514	272	1,589	5,275	291	476	37	8,062	4	1,159	25,924	864

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports. Includes pentanes plus, kerosene, naphtha less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.

(s) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 23. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January - June 1984 (Thousand Barrels) (continued)

Destination	Crude	0	Finished Motor	Jet	Pitel Fuel	Residual	Special	Lubri	Mayor	Petro-	A 22 h = (4	Č		Total
Source Action	Oj 1	5	Gasoline	-rie	ō	ō	Naphthas	cants	S S S S S S S S S S S S S S S S S S S	Coke	Aspnall	zie G	ota	(Daily
Saudi Arabia	0	64	0	0	জ	0	(8)	128	ē	C	-	5		7ve 40e)
Singapore	0	5	•	ς.	2	1	;	3 6	2	>	>	Ŋ		,
Spain	· c	io	• •	0 (3 5	0,0	4	6	(s)	٥	(S)	ത		10
Sirinam	0	9 (>	3	349	1,308	0	372	-	4,035	0	253		, K
Constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the consti	.	>	0	0	0	0	0	ĸ	c	r.		•		3
Sweden	0	7	0	0	0	_	c	α	وَ	7	3	- •		(e)
Switzerland	0	٥	_	Ç		· c	3	٠ د	<u>a</u> .	4	(S)	4		٧,
Thailand	_	(9)	÷ 6	0	0	-	(s)	4	(S)	0	0	ო		(S)
Trinidad and Tohano		<u>;</u>	3	0 60) (> (_	36	(S)	(S)	0	62		-
Tirker	.	-	.	206	(s)	0	ιΩ	œ	(S)	0	(8)	-		
YOUNG	⊋	<u>(8)</u>	0	0	(S)	c	(9)	*	્	000	9	- ;		-
United Arab Emirates	0	•	a	c	C)		23	٠,	Ĉ	305	-	1/4		m
United Kingdom	c	. 67	9	· c	1 <) (<u>(8</u>	2	D	181	0	2		-
U.S.S.R.	· c	į	(e)	0	٠ (1,087	 1		N	67	(s)	16		7
Uruquay	o c	٠ و) c	> c	> 0	۰ د	0	167	0	237	0	0	404	2
Venezuela	9	(6)	9 0	> 0	> 1	0	(S)	v)	(S)	٥	(S)	-		(S)
Virgin Islands	25.0	† *	9 0	.	> 0	ָם ניס	4	თ	N	467	(S)	60	1.013	œ
West Germanic	,	<u>:</u>	> 0	۰ د	.	2,864	0	(s)	0	0	0	(5)	26,689	147
Vicoslavia	5 ((s)	.	٥	0	0	(s)	64	12	479	(C)	83	859	
- ugoslavia	0		0	0	0	0	0	(e)	(8)	977) }	3	3 6	1 (
Other	0	0	0	0	C	c		c	2	5	> 6	2	- 45	N
Total	35,993	8 523	503	770	0 200	2	ì	9	<u>.</u>	>	5	0	٥	0
		1	5	ħ	2000	20,02	546	3,092	230	37,362	9	5,004	130,080	715

Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel tor barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports. Includes penhanes plus, kerosene, naphtha less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.

(S) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels)

	United States	108,318 195,611 21,534 413,735 27,229 766,427	315,175 300,495 110,434 9,644 735,748	657 5,858 2,296 1,710 10,521	7,350 76,721 14,396 7,741 106,208	39 15,726 3,640 1,797 21,202
PAD	V V West Coast	26,432 26,230 1,639 0 27,229 81,530	66,038 24,517 4,986 146 95,687	5 5 53 51	671 989 0 123 1,783	00000
PAD	Dist. IV Rocky Mt.	2,546 9,583 1,330 0 0 13,459	13,568 3,253 2,745 253 19,819	17 0 148 87 252	281 66 430 154 931	0 128 1 129
	Total	50,315 97,481 16,918 413,735 0 578,449	133,772 84,997 40,036 7,004 265,809	400 3,259 1,422 1,246 6,327	2,960 53,948 5,415 5,603 67,926	6 13,022 1,756 1,533 16,317
	New Mexico	111111	1,474	11 32	224	1 1 1
rict III	No. La., Ark.	11111	5,404	18 1 18	1 36	
PAD District III	Coast	11111	44,780 	127	1,824 	
	Texas Gulf Coast	11111	72,238	138	922 	1,408
	Texas	11111	9,876 1,625	106	151 1,022 	107
•	Total	15,433 1,589 0 0 0 77,934	60,897 80,917 36,630 1,988 180,432	2,566 721 341 3,836	2,755 20,526 7,338 1,645 32,264	10 2,704 1,756 263 4,733
	Okta., Kans., Mo.	11111	14,159	123 	579 — — 1,094	0 182
PAD District II	Minn., Wisc., Daks.	11111	7,329	1 1 1	164	۱ ۱ ۱
PAE	Ind., III., Ky.	11111	38,464 558	9 1	1,836	1 1
	Appa- lachi- an #2	11111	24e	0 0	176	
-	Total	13,592 1,405 58 0 0 15,055	40,900 106,811 26,037 253 174,001	16 26 0 13 55	683 1,192 1,213 216 3,304	8,0008
PAD District 1	Appa- lachi- an #1	111111	2,967	11	<u> </u>	
PAI	East Coast	11111	37,933 212	ا ا ق	185	8 0
	Commodity	Crude Oil (incl. lease condensate) Frediery Tank Farms and Pipelines Leases Strategic Petroleum Reserve¹ Alaskan in Transit Total	Total Stocks, All Oils (excl. Crude Oil) Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	Pentanes Plus Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	Liquefied Petroleum Gases Refinery	Ethane Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

	2	PAD District			PA	PAD District II					PAD District III	strict III			PAD	PAD	
Commodity	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind., III. Ky	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf Coast	No. La, Ark.	New Mexico	Total	Dist. IV Rocky Mt.	V V West	United States
Propane for Petrochemical Feedstock Use RefineryTotal	se 44	ŀ	4 4	0 	<u>8</u>	0	-	82 82		,	- 51	0	0	88	30	0 0	186 186
Propane For Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	547	ا ۾ ا	553 903 1,162 184 2,802	11 1	346	8 18 1	171	1,379 14,591 3,948 886 20,804	1 ₅ 448	1 428	1,356	4 1 1 1	6 1 1	1,460 24,168 2,500 2,247 30,375	155 65 177 102 499	269 283 0 108 660	3,816 40,010 7,787 3,527 55,140
Normal Butane For Petro. Feed Use Refinery	0	0	00	0	0	28	0	24 45	6	,	0	 I	0	ထတ	ນວ	0 0	
Normal Butane For Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	11 1 8 %	% °	270 270 51 30 414	11 1	345 	20 1	28 1 251	787 2,203 945 4,344	8 18	705 1 818	175	8 1 1	t 11 %	988 10,733 774 1,312	89 1 82 42 42 42	367 510 0 8 8	2,294 13,717 1,852 1,801 19,664
Isobutane Refinery Bulk Terminal Pipeline Natural Gas Processing Plant			0 0 0 0 7 7	% O	224		1 1 58 55 1 1	473 1,028 689 87 2,277	E 18	149	242 	σ ω 	, <u> </u>	438 6,025 385 511 7,359	% o & o \$	33 0 7 236	976 7,268 1,117 616
Other Hydrocarbons and Alcohol Refinery	95	١	95	١	138	0	T I	137	- 1	88 1	5 1	١	0	8 8 8	00	W W	330
Unfinished Oils Refinery Naphthas and Lighter	4,378 1,495 5,667 2,605 14,145	310 9 287 210 816	4,688 1,504 5,954 2,815 14,961	35 0 103 139	2,839 2,087 3,834 2,895 11,655	113 9 668 28 812	1,151 429 1,849 1,290 4,719	4,138 2,519 6,454 4,214 17,325	836 581 803 536 2,756	7,642 5,464 9,668 5,343 28,117	5,343 1,945 6,801 3,811 17,900	259 56 128 30 473	25 5 180 6 216	14,105 8,051 17,580 9,726 49,462	559 612 813 735 2,719	5,393 3,644 11,800 5,477 26,314	28,883 16,330 42,601 22,967 110,781

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

	4	PAD District 1	-		PAI	PAD District II	_				PAD District III	trict III			PAD	PAD	
Commodity	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	ind. II., Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas Inland	Texas Gulf Coast	La Gulf No. La., Coast Ark.		New Mexico	Total	Dist. IV Rocky Mt.	Dist. V West	United States
Motor Gasoline Blending Components Refinery	5,349	ا ۱ ا ا	5,452 84 0 5,536	4 1 1 1	4,807	89 1	1,453	6,988 185 2 7,175	1,397	9,551	5,675	1 1	183	16,925 758 0 17,683	2,349 0 0 2,349	8,312 239 0 0 8,551	40,026 1,266 2 41,294
Aviation Gasoline Blending Components Refinery	Ε!	١	==	۱	ءَ ا	١	SS	156 156	0	0	149	o 	•	149 149	00		327 327
Total Finished Môtor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	5,061	328	5,389 42,649 15,736 24 63,798	8 0	6,807 	1,125	2,361	10,356 30,886 17,066 0 58,308	2,068	9,343	4,959 	1,839	224	18,433 14,601 20,253 0 53,287	2,482 1,904 1,195 11 5,592	9,025 11,883 2,280 0 23,188	45,685 101,923 56,530 35 204,173
Finished Leaded Motor Gasoline Refinery Bulk Terminal Pipeline Processing Plant Total	18.1 1 1 1 1	22 1 0	2,034 20,443 6,706 14 29,197	¥ 1 1 1	3,078	733	1,295	5,140 15,453 8,561 0 29,154	1,259	4,333	1,563	6 6 6 6 6 6 6 6 6	1 1 1	7,937 8,049 7,960 0 23,946	1,626 1,189 772 8 8 3,595	4,095 5,758 931 0 10,764	20,832 50,892 24,930 22 96,676
Finished Unleaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	3,251 	, I I I	3,355 22,206 9,030 10 34,601	ر ا ا ا	3,729	987	1,066	5,216 15,433 8,505 0 29,154	909	5,010	3,396	1,175	90 1	10,496 6,552 12,293 0 29,341	856 715 423 3 1,997	4,930 6,125 1,349 0 12,404	24,853 51,031 31,600 13 107,497
Finished Aviation Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	, 2, 0		46 44 0 0 0 0 83	0 0	8 1 1	0 0	1	109 332 91 0 532	109	, see 1	152	0 0	0 0	554 77 10 74 715	35 9 0 56	240 295 37 0 572	972 1,165 147 74 2,358

See footnotes at end of table,

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

	/d	PAD District 1	_		PAI	PAD District II					PAD District III	rict III			PAD	PAD	
Commodity	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind., Ill., Ky.	Minn., Wisc., Daks.	Okta., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf N	No. La.	New Mexico	Total	Dist. I∀ Rocky Mf.	V V Vest	United States
Naphtha-Type Jet Fuel Refinery	569	32	301	0	502	105	127	733	Ş	797	9	2	į	100			
nal	ı	i	405	1	; } 	. 1	į 		§	5	ף פ	<u></u>	= 1	118	ÿ "	940	1,000
Pipeline Total	I	1	172	ı	l	1	1	153	1	I	I	1	l	426	106	4 8	1,337
	i	l	9/2	l	i	I	I	1,547	ı	I	1	1	I	2,231	333	1,917	906'9
Kerosene-Type Jet Fuel Refinery	6	¢	2	č	7	i T	ć i	i i	į	((•					
Bulk Terminal	, 4	I	4,924	1	<u>.</u>	<u> </u>	<u> </u>	4,105	₹	9767	2,934	ω 	22	6,216	323	3,282	12,386
PipelineTotal	f	I	3,164	I	ł	ı	1	2,087	١	ł	İ	ı	1	4,645	239	604	10,739
	I	ŀ	3,000	l	I	ı	l	7,847	1	I	I	1	I	12,700	788	5,665	36,000
Kerosene Refinery	252	87	339	0	373	4	347	764	æ	590	207	ď	0	100	c	Š	Č
Bulk Terminal	1	1	3,093	1	1	: 	,	675	3 1	3 1	; } 	}	è l	2, c.	33.0	88	2,647 4,373
Pipeline	1	1	98	ı	T	I	1	174	1	ı	I	1	1	655	5 0	9 0	865
Total	ء ا)	3.468	ь 	o 	o 	o	0 4	e)	0	0	0	0	2 2	o į	0 !	i i
						ı	I	20,	I	i	l	l		2,524	37	245	7,887
Distillate Fuel Oils	į	į		ł													
Bulk Teminal	4,0//	6/2	4,956	24	4,582	1,616	2,466	8,721	986	8,470	4,004	267	255	14,292	2,096	5,321	35,386
Pipeline	ŀ	IJ	5,630		i J	1 1	1	01.70	1]	l	l	ł	4,859	749	5,079	54,092
Natural Gas Processing Plant	0	0	0	0	0	0	Ö	50	0	~ 	6	- 	c	0,924 0	200	, 241 1	23,388
Otal	1	ı	39,943	ŀ	I	I	ı	31,744	I	I	1	I	1	26,077	3,463	11,641	112,868
Residual Fuel Oils																	
Refinery	2,287	4	2,391	32	1,44,1	246	138	1,880	385	3,964	2,670	123	₩	7,160	510	7,103	19,044
Dun Terminal	ļ	I	19,517	i	J	I	I	1,699	I	ł	I	1	1	4,053	0	2,333	27,602
Total	1	1 1	21,913	1	1 1		H	3,579		11	1 1	1		11 214	510	159 9.585	165
Naphtha < 400 Deg. Petro. Feedstock														į	?		
Refinery	583	0	269	0	125	0	55	180	8	839	458	8	0	1,420	0	73	1,942
90	697	>	600	0	125	0	55	180	8	839	428	83	0	1,420	0	73	1,942
Other Oils > 400 Deg. Petro. Feedstock																	
nemery	დდ	00	ဖ ဖ	00	2 2	00	00	57 5	214	1,298	293	00	00	1,805	ന	136	1,962
			,)	!)	,	i	į	267.	200	>	>	200.	9	9	206'-

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, June 1984 (Thousand Barrels) (continued)

	 a	PAD District 1			PAI	PAD District II					PAD District III	trict III			PAD	PAD	
Commodity	East Coast	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind.,	Minn., Wisc., Daks.	Okla, Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf No. La., Coast Ark.	<u> </u>	New Mexico	Total	Dist. IV Rocky Mf.	Dist. West Coast	United
Special Naphthas Refinery Bulk Terminal	85	27	631	6 C	182	0 0	٤ ' و	353 154	- 24	1,169	67	144	0 (1,419	6 0	179 36	2,072 883
Total) 	743)	,	i	!	507	8	- 	s)	o 	68 1,549	၀၈	215	3,023
Lubricants Refinery Bulk Terminal	006 	⁶⁶ 1	1,809 1,202 3,011	11	760	11	340	1,100 988 2,088	1 8	2,507	1,224	. 1 593	0	4,352 273 4,625	72 22	457 805 1,262	7,788 3,270 11,058
Waxes Refinery	4	87	9.0	6 	37	١	8 I	57 57	t. 1	- 505 -	128	- 47	o 	391 391	00	2, 2,	593 593
Petroleum Coke Refinery Total	536 536	00	536 536	00	277 772	999	143	1,086 1,086	00	295 295	728 728	206 206	00	1,229	174	1,533	4,558 4,558
Asphait and Road Oif Refinery	2,164	1 1 162	2,326 3,230 5,556	384	3,268	1,666	878 	6,196 4,009 10,205	813 1 1	367	445	88 1	219	2,721 557 3,278	2,272 249 2,521	2,026 315 2,341	15,541 8,360 23,901
Miscellaneous Products Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	195	<u>6</u>	214 411 19 0 0 347	0 0	1 1	& O	 5 0	126 21 85 234	36	1 523	41 0	90 2	0 0	763 61 285 9 1,118	, 20-0	134 224 180 0 538	1,244 422 569 12 2,247
Total Stocks, All Oils	1	1	189,056	-	1	1	1	258,366	1	1		1	8	844,258	33,278 1	77,217	33,278 177,217 1,502,175

Includes 33,879 thousand barrels of domestic crude oil.
 Source: See Explanatory Notes on Data Collection and Estimation.
 — Not Applicable.

Table 25. Refinery and Bulk Terminal Stocks of Selected Petroleum Products by State, June 1984 (Thousand Barrels)

State	Motor Gasoline	Motor Gasoline	Kerosene	Distribute Fuel Oil	Fuel
PAD District I Total	22.477	25.561	3.432	34 251	94 90
Connecticut	599	609	50	1 608	005
Delaware, D.C., Maryland	1,138	1,451	172	2,623	1.756
Florida	2,905	3,744	215	1,938	1,612
Georgia	1,291	1,571	88	996	353
Mossachreate	418	556	84	861	720
Vermont	2.6	282,I	4t	2,091	783
New Jersey	3.199	4 898	× 00€	450	283
	4.794	2,713	338	0,040	4884
North Carolina	1,208	1.318	259	1450	102,8
Pennsylvania	2,582	3,925	545	4 329	1 520
Rhode Island	187	463	A	788	2
South Carolina	867	954	205	292	749
Virginia	1,823	1,757	382	2,198	908
West vigina	292	243	12	220	71
PAD District II Total	20.593	20 649	1 430	10000	c c
Ilfinois	3.670	4.599	235	4515	9,0,0
Indiana	3.023	2.977	171	4,010	500
lowa	736	688	. *	1187	000
Kansas	1.066	877	: 42	1.467	;
Kentucky	876	1.267	5 5	1.163	701
Michigan	2.232	2,379	130	20.0	1004
Міплеѕота	1,321	99	3	1.801	287
Missouri	871	618	*	565	3
Nebraska	470	199	0	230	; C
North & South Dakota	419	354	0	942	> ≯
Ohio	2,619	2,947	280	2,360	484
Oklahoma	1 035	006	334	1,732	177
Mesosacia	1,140	1,006	88	854	164
Wiscolisiri	1,115	1,171	*	1,349	115
PAD District III Total	15 986	17.048	1 857	+0 454	11 212
Alabama	953	811	. 6	28.5	070
Arkansas	202	175	; 3	26.2	
Louisiana	1,882	3.203	603	4 238	3 969
Mississippi	1,191	2.108	13	874	468
New Mexico	244	223	3	349	£ £
Texas	11,511	10,528	1,093	12,567	5,823
PAD District IV Total	1400	Ĭ	ţ		1
Colorado	2,013	1,5,1	÷ °	2,845	016
Odeo	2.0	9.4	> (£ 1	90L
Montana	404	15.0	> ;	(Z)	- į
	2 6	7 7	≥ °	81/	8
Wyoming	28.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	777	⊃ ;	28.	202
	8	9	*	5	21.
PAD District V Total	9,853	11.055	245	10.400	9 436
Alaska	4	288	2 3	1 1 1 1	55t,2
Arizona	461	458	: 3	276	: <
California	5 704	7 521	127	200	1000
Hawaii	286	174	<u> </u>	0,000	150,0
Nevada	187	2.5	> 3	3 7	3 3
Oregan	803	720	= ;	- 6 - 6	× (1)
Washington	1,879	1.667	\$ }	2,264	1 555
		1	:		2001
linited States Tetal	44 400	100 11			

Table 26. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge between PAD Districts, June 1984 (Thousand Barrels)

Common of the	u	From I to			From II to	to			From III to	\$		#	From IV to			From V to	٩	1
Commodity	11	111	>	-	=	Λ	>	_	=		>	=	=	>	_	=	=	≥
Crude Oil (Tanker and Barge only)	თ	261	0	56	0	0	0	444	1,687	0	0	0	0	0	2.923	642	12.126	0
Petroleum Products	8.893	405	0	2.759	8.665	2.031	844	73.600	97 R76	c	¢ 7	1 794	4	0,50	•		}	•
Pentanes Plus	0	0	0	0	14	0	0	0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	o c	2 C	, c	5 5	, ,	> 0	> c		ه د
Liquefied Petroleum Gases	0	0	0	429	5,161	45	0	1,058	6,293	0	0	627	765	o c	> c	> ¢	> c	> c
Unfinished Oils	0	0	0	0	0	0	844	130	4	0	0	0	9 0	· c	o c) C	> c	> <
Motor Gasoline Blending Components	0	0	0	0	0	0	0	37	0	0	0	0	0		, c	o C	,	> <
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0	0	0	· C) C) C	٥ د) c
Finished Motor Gasoline	5,706	0	0	1,456	1,790	1,301	0	45,422	12,612	0	890	574		887	o C	o c	> <	> c
Finished Leaded Motor Gasoline	2,979	0	0	484	906	642	0	16,584	5,855	0	445	329	0	547	c	· c	o c	O
Finished Unleaded Motor Gasoline	2,727	0	0	972	884	629	0	28,838	6,757	0	445	215	. 0	340	0	· c		o c
Finished Aviation Gasoline	15	0	0	0	0	22	0	274	173	0	0	0	0	0	· C	· c	0	· c
Naphtha-Type Jet Fuel	121	₩	0	0	503	0	0	281	61	0	184	78	0	52	c) C	o c	> c
Kerosene-Type Jet Fuel	162	0	0	136	88	449	٥	8,517	1,104	0	201	4	0	8	0	· c	0 0	o c
Kerosene	'n	0	0	0	O	0	0	229	0	0	o	0	0	0	0	c	0) C
Distillate Fuel Oil	2,809	0	0	310	232	214	0	14,916	5,617	0	363	358	0	247	0	· c	o c	, c
Residual Fuel Oil	0	0	0	35	34	٥	0	1,640	-	0	0	0	0	0	0	0	. 0	0
Feedstock	34	0	0	17	c	_	_	σ	ā	c	c	c	c	c	c	(•	•
Special Naphthas	0	0	0	0	0	0	0	147	5 52	· c	· c	, c	o c	o c	o c	> c	-	> 0
Lubricants	0	148	0	35	ន	٥	0	642	475	0	2	0	0	0	o c	c	> <	> C
Waxes	0	0	0	0	0	0	0	유	0	0	0	0	0	0	0	o c	? <	> C
Asphalt and Road Oil	0	120	0	116	0	0	0	183	509	0	0	0	0	0	0	· c	o c	,
Miscellaneous Products	43	8	0	225	37	0	0	105	0	0	0	0	0	0	Ф	0	3,6	0
Total All Products	8,902	999	0	2,785	8,665	2,031	844	74,044	29,563	o	1,648	1,724	915	1,278	2,923	642	12,199	0
1																	! !	,

Table 27. Movements of Petroleum Products by Pipeline between PAD Districts, June 1984 (Thousand Barrels)

distribution of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	From 1 to	2	11-	rom II to			From III to	II to		ŭ.	From IV to		From V to	< 5
Someonic Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Cont	=	≡	-	=	2	_	-	Δ	^	=	≡	>	=	≥
Pentanes Plus	٥	0	0	84	0		852	0	0	83	150	0	0	0
Liquefied Petroleum Gases	0	0	429	5,161	4		6,293	0	o	627	765	0	0	٥
Motor Gasoline Blending Components	0	۵	0	0	0		0	0	٥		0	ರ	0	0
Aviation Gasoline Blending Components	0	0	0	٥	0		٥	0	0		0	0	0	0
Finished Motor Gasoline	4,379	0	1,219	1,737	1,301		11,968	٥	890		0	887	0	0
Finished Leaded Motor Gasoline	2,227	0	401	880	642		5,561	0	445		0	547	٥	0
Finished Unleaded Motor Gasoline	2,152	0	818	857	629		6,407	٥	445		0	340	0	0
Finished Aviation Gasoline	1	0	0	0	Z		110	0	0		0	0	0	0
Naphtha-Type Jet Fuel	0	0	0	209	0		9	0	<u>\$</u>		0	23	0	0
Kerosene-Type Jet Fuel	114	0	5	æ	449		1,019	0	201		0	95	0	0
Kerosene	٥	0	0	0	0		0	0	٥		0	0	0	0
Distillate Fuel Oil	1,959	0	249	524	214		4,854	0	363	358	O	247	0	0
Residual Fuel Oil	0	0	0	0	0		O	0	0		0	0	0	0
Miscellaneous Products	0	0	195	0	0		0	0	0		٥	0	0	0
Total	6,467	0	2,212	8,510	2,031	54,470	25,157	0	1,638	•	915	1,278	0	¢

Table 28. Movements of Crude Oil and Petroleum Products by Tanker and Barge between PAD Districts, June 1984 (Thousand Barrels)

	_	From I to		Ш	From II to				From III to	II to			Fro	From V to	
Commodity	=	Ħ	>	_	=	>	_	New	Sent Atl	Low	=	>	-	=	.
Crude Oil	6	261	0	56	0	0	444	0	44	٥	1,687	0	2,923	642	12,126
Petroleum Products	2,426	405	0	547	155	844	19,130	787	3,341	15,002	2,719	5	0	0	73
Infinished Oils	O C	0 0	0 0	00	00	0 %	185	00	0 8	185 52	O 9	0 0	0 (φ (0
Motor Gasoline Blending Components	0	0	0	0	0	9	37	0	30	3 8	? C	o c	> 0	o c	o 0
Finished Motor Gasoline	1,327	0	0	237	23	0	10,470	58	1,130	9,312	644	0	0	0	0
Finished Leaded Motor Gasoline	752	٥	0	83	56	0	3,659	0	124	3,535	294	0	0	0	٥
Finished Unleaded Motor Gasoline	575	0	0	\$	27	0	6,811	88	1,006	5,777	350	0	0	0	0
Finished Aviation Gasoline	0	٥ ;	0	0	0	0	249	ន	94	132	8	0	0	0	0
Naphtha-Type Jet Fuel	121	<u>8</u>	0	0	0	0	0	0	o	0	0	0	0	¢	0
Kerosene-Type Jet Fuel	48	0	0	16	0	0	1,956	168	435	1,353	85	0	0	0	0
Kerosene	ო	٥	φ.	O	0	0	49	0	0	49	٥	0	0	0	0
Distillate Fuel Oil	820	0	0	6	80	0	3,318	16	903	2,399	763	0	0	0	0
Residual Fuel Oil	0	٥	0	35	8	0	1,640	552	٥	1,088	-	0	0	0	0
Naphtha and Other Oils for Petro. Feed. Use	34	0	0	17	0	0	თ	0	0	თ	49	0	0	0	0
Special Naphthas	0	0	0	0	0	0	147	0	121	56	120	0	0	0	0
Lubricants	0	148	0	35	ន	0	642	0	436	206	475	5	0	0	40
Waxes	0	0	0	0	0	0	우	0	5	0	0	0	0	0	0
Asphalt and Road Oil	0	120	O	116	0	0	183	0	45	138	509	0	0	Φ	0
Miscellaneous Products	43	26	0	99	37	0	105	0	105	0	0	0	0	0	33
Total	2,435	999	0	573	155	844	19,574	787	3,785	15,002	4,406	5	2,923	642	12,199

Table 29. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge between PAD Districts, June 1984 (Thousand Barrels)

	Α [PAD District	_	PA	PAD District II	=	PA	PAD District III	#	PA	PAD District IV	≥	PA	PAD District V	
Commodity	Receipts into PADD I	Ship- ments from PADD I	Net Receipts PADD I	Receipts into PADD II	Ship- ments from PADD II	Net I Receipts PADD II I	Receipts into PADD III	Ship- ments from PADD III	Net Receipts PADD III	Receipts into PADD IV	Ship- ments from PADD	Net Receipts PADD IV	Receipts into PADD V	Ship- ments from PADD V	Net Receipts PADD V
Crude Oil (Tanker and Barge only)	3,393	270	3,123	2,338	56	2,312	12,387	2,131	10,256	0	0		•	15,691	-15,691
Petroleum Products	76,359	9,298	67,061	38,493	14,299	24,194	10,058	103,124	-93,066	2,031	3,917	-1,886	3,770	73	3,697
Pentanes Plus		-	2 5	233	641	96	66	852	139	0	233	-233	0	0	Ö
Liquefied Petroleum Gases		> 0	,48 ,48 ,48	0,920	0,635	1,285	5,926	7,351	-1,425	45	1,392	-1,347	0	0	0
Unfinished Oils	3 5	-	3 2	4 6	844	904	0	170	-170	0	0	0	844	0	844
Motor Gasoline Blending Components		-	÷ (-	o (0	ο,	37	-37	0	0	0	0	0	0
Aviation Gasoline Blending Components			ے ا	0 5	о <u>і</u>	0	0	0	0	0	0	Ф	0	0	0
Finished Motor Gasoline	46,878	5,736	41,172	18,892	4,547	14,345	1,790	58,924	-57,134	1,301	1,461	-160	1,777	O	1,777
Finished Leaded Motor Gasoline	17,068		14,089	9,193	2,032	7,161	906	22,884	-21,978	642	906	-264	366	0	992
Finished Unleaded Motor Gasoline	29,810		27,083	9,699	2,515	7,184	884	36.040	-35,156	629	555	104	785	0	785
Finished Aviation Gasoline	274		229	188	ដ	166	0	447	-447	22	0	22	0	0	0
Naphtha-Type Jet Fuel	281		73	98 88	503	5	230	526	-536	0	130	-130	236	0	236
Kerosene-Type Jet Fuel	8,653		8,491	1,270	623	647	38	9,822	-9,784	449	96	353	293	0	293
Kerosene	229		556	ო	0	က	0	229	-229	0	0	0	0	0	C
Distillate Fuel Oil	15,226	2,809	12,417	8,784	1,056	7,728	235	20,896	-20,364	214	902	-391	610	0	610
Residual Fuel Oil	1,675	٥	1,675	-	69	89	34	1,641	-1,607	0	0	0	0	0	0
Naphtha and Other Oils for Petro.													ĪI	,)
Feedstock Use	26	34	ሞ	53	17	99	o	8	-28	0	0	0	0	0	c
Special Naphthas	147	0	147	120	0	23	0	267	-267	0	0	0	0	0	c
Lubricants	677	148	529	475	28	417	211	1,127	-916	0	0	C	10	40	, C
Waxes	10	0	5	0	¢	0	0	2	2	0	0	0	· -	i C	3 6
Asphalt and Road Oil	299	120	179	509	116	393	120	692	-572	0	0	0	0	0	c
Miscellaneous Products	330	66	231	43	262	-219	126	105	2	0	٥	0	0	33	-33
Total All Products	79,752	9,568	70,184	40,831	14,325	26,506	22,445	22,445 105,255	-82,810	2,031	3,917	-1,886	3,770	15,764	-11,994

Table 30. Production of Residual Fuel Oil by Sulfur Content, June 1984 (Thousand Barrels)

77.77	PA	D District			PA	D District	_		_		PAD D	District III			DAD	PAD	-
Commodity	Fact	Appala-	-	-	72		Okla.		1	Texas	1	- 414	1		Dist. IV	Dist. V	United
	Coast chian	chian #1	Total	chian #2	E. K	Wisc. Daks.	Kans. Mo.	Total	Inland	Gulf Coast	Gulf	Ar.	Mexico	Total	Rocky Mt.	West	States
esidual Fuel Oil	3,262	84	3,346	59	1,045	164	267	1,535		6,450	2,621	233	5	9.952	230	10.161	25.224
0.00 to 0.30% Sulfur	672	ĸ	697	0	87	o	0	96	78	474	517	75	7	1,151	75	469	2,488
0.31 to 1.00% Sulfur		•	2,287	8	193	0	43	375		1,013	740	92	0	2,302	5	2,364	7,398
reater than 1.00% Sulfur		29	362	20	765	155	124	1,064		4,963	1,364	99	ო	6,499	82	7,328	15,338

Source: See Explanatory Notes on Data Collection and Estimation.

Table 31. Stocks of Residual Fuel Oil by Sulfur Content, June 1984 (Thousand Barrels)

	PA	PAD District	-		PAE	PAD District II	_	-			PAD District III	III			חאם	040	
Commodity	East Appala- Coast chian	Appala- chian #1	Total	Appala- chian #2	Ind., Ill., Ky.	Minn, (Wisc., Modern.)	kla., ans., Mo.	Total	Texas Inland	Texas Gulf Coast	Gulf Gulf Coast		New	Total		Dist. V West	United States
Residual Fuel Oil – 0.00 to 0.30% Suifur Refinery	4 H I	23	458 4,041 4,499	0	₄	ω	۱۱	49 07	94	۱۱ پو	297	8 11	= 11	459 249 708	1	37.1 5.2 4.23	1,455 4,348 5,803
Residual Fuel Oil 0.31 to 1.00% Sulfur Refinery	1,156	რ 	1,159 6,503 7,662	25	1 233	o 	⁹⁹	651 461 1,112	128	1,173	1,162	1 20	° 	2,513 1,769 4,282	27 o 27	1,779 778 2,557	6,225 9,511 15,736
Residual Fuel Oil – Greater than 1.00% Sulfur Refinery Bulk Terminal Total	1 400	<u> </u>	774 8,973 9,747	ო 	862	7 238	8 1 1	1,165 1,232 2,397	1 163	2,757	1,21	8	-	4,188 2,035 6,223	284 0 284	4,953 1,503 6,456	11,364 13,743 25,107

Source: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable

Table 32. Movements of Residual Fuel Oil by Tanker and Barge between PAD Districts, by Sulfur Content, June 1984 (Thousand Barrels)

		From to		1	From II to				From III to	≡ to				From V to	
Commodity	=	≡	>	_	=	>	-	New Eng	Cent	Low	==	>	_	=	≡
Residual Fuel Oil	0000	0000	0000	35 0 0 35	34 0 0 34	0000	1,640 313 364 963	552 0 0 552	0000	1,088 313 364 411	-00-	0000	0000	0000	0000

Table 33. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, June 1984 (Thousand Barrels)

Country 0.00 to 0.53 to 0.53 to Total Total Age to PEC 1,186 0 1,186 0 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 1,186 <t< th=""><th></th><th></th><th>Residua</th><th>Residual Fuel Oil</th><th></th></t<>			Residua	Residual Fuel Oil	
OPEC 1,186 0 a1 0 0 a2 0 0 a4 0 0 a4 0 0 a5 0 0 c) d Arabia 0 0 d Arabia 0 0 d Arabia 0 0 d Arabia 0 0 d Arabia 0 0 d Arabia 0 0 d Arabia	Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
1,186 0 0 0 0 0 0 0 0 0	Arab OPEC				
atilitation of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of	***************************************	1,186	0	0	1,186
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urts of Residual Fuel Oil by Sulfur Content by Country of Origin, June 1984 (Thousand Barrels)

(Thousand Barrels) (continued)		
		oc.
Country	0.00 to 0.30%	0.31 to
Other Other Western Hemisphere		
Other Eastern Hemisphere	(s) 2,467	446

(s) = Less than 500 barrels. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

622 529 12,747 20,283

475 83 6,119 10,586

4,619

5,077

Total Imports

Total

Greater Than 1.00%

Residual Fuel Oil

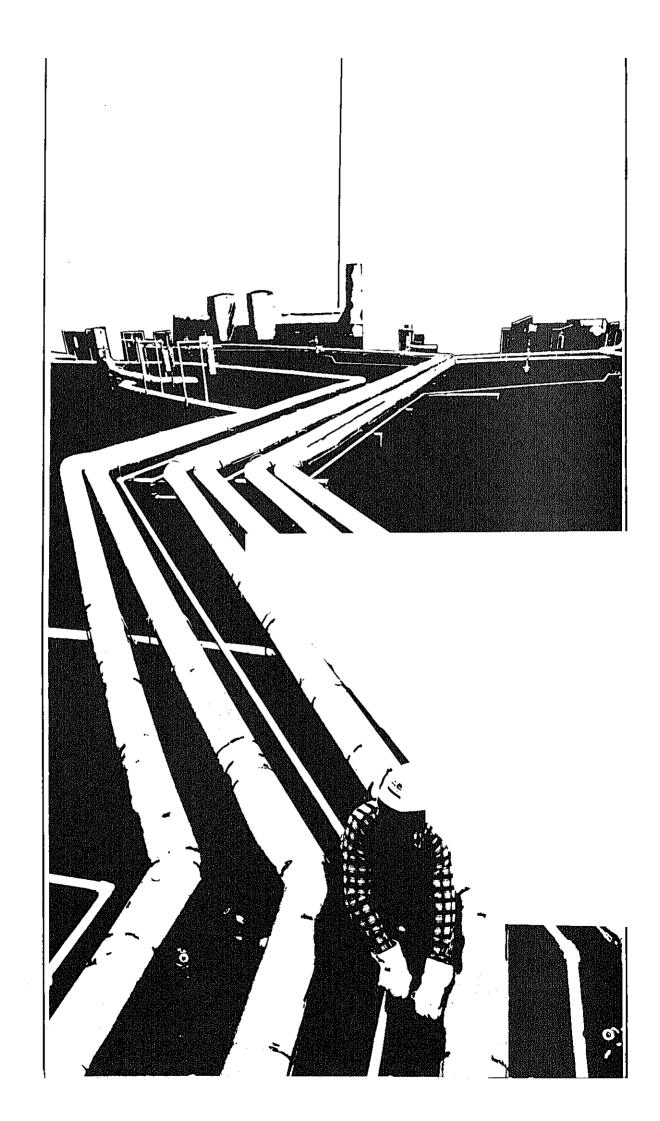
Table 34. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, June 1984 (Thousand Barrels)

		Residu	Residual Fuel Oil	
State	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
PAD District I	4,655	3,965	9.603	18.223
Connecticut	0	320	0	320
Delaware	0	0	101	101
Florida	0	682	1.127	1.809
Georgia	0	0	24	24
мале	0	207	612	918
Maryland	0		304	304
Massachusetts	266	366	1,841	2.473
New Hampshire	0	0	: C8	? ? ?
New Jersey	1,102	926	1.708	3 765
New York	2,761	968	2.184	5.912
North Carolina	0	•	162	162
Pennsyfvania	523	418	535	1.476
Rhode Island	0	0	69	69
South Carolina	0	48	254	301
Vermont	4	۵	(8)	4
Virginia	0	0	603	603
PAD District II	4	98	43	133
Illinois	. 0		; ⊂	<u>8</u> &
Michigan	(s)	္မ		g (C
Minnesota	4	0	24	28.
North Dakota	0	0	-	-
Wisconsin	0	0	81	# #
PAD District III	406	281	792	1.480
Louisiana	0	37	0	37
Texas	406	245	792	1,443
PAD District IV	-	0	-	8
Montana	*	0	4 -	1 64
	ç	Č	ţ	!
California	<u> </u>	788	148 8	445 e
	. 6	28.	140	733 0
Washington	; o		0	\$ ^
All PAD Districts	5,077	4,619	10,586	20,283

(s) = Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

66



Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Deg API =
$$\frac{141.5}{\text{sp gr 60F/60F}}$$
 - 131.5

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short ton.

ASTM. The acronym for the American Society for Test-Ing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline (Finished). All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barrels Per Calendar Day. See Operable Capacity.

Barrels Per Stream Day. See Operable Capacity.

Bi-Metallic. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of two metals (e.g. platinum, rhenium).

Butane. A normally gaseous straight-chain or branch-chain hydrocarbon. (C4H10). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is covered by ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane. A normally gaseous branch-chain hydrocarbon, (C4H10). It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees F. It is extracted from natural gas or refinery gas streams.

Normal Butane. A normally gaseous straight-chain hydrocarbon, (C4H10). It is a colorless paraffinic gas that boils at a temperature of 31.1 degrees F. It is extracted from natural gas or refinery gas streams.

Butylene. An olefinic hydrocarbon, (C4H8), recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroleum fractions (e.g. distillate fuel oil and residual oil) and unfinished oils (e.g. naphthas, reformer feeds and heavy gas oils) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciably; the conversion of low-octane gasoline fractions into higher octane stocks sultable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g. platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratifed carbonaceous rocks are either solid or brittle and are highly combustible. In-

cludes lignite, bituminous coal, and anthracite which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude Oil (including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite and oll shale. Drip gases are also included, but topped crude oil (residual) oil and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where Identifiable. Crude oil is considered as either domestic or foreign according to the following:

Domestic. Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons are included.

Delayed Coking. A process to produce low Conradson carbon gas oil for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuels.

No. 1 Fuel Oil. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 400 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oil. A distillate fuel oil for use in atomizing-type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Oils. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under variations in speed and load. Includes type C-B dlesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F. for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with preheating facilities, it is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for lowand medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa and Australia. The Hawaiian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous straight-chain hydrocarbon, (C2H6). It is a colorless paraffinic gas that bolls at a temperature of -127.48 degrees F. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4), recovered from refinery processes or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking. A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

Gasohol. See Motor Gasoline (Finished).

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distillate-type fuel oils and diesel fuel, also cracked to produce gasoline.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

Idle Capacity. The component of operable capacity that is not in operation and not under active repairs, but capable of being placed in operation within 30 days; and capacity not in operation but under active repairs that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and jiquid hydrocarbons produced from tar sand oil, gilsonite, and shale oil.

isobutane. See Butane.

resomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alyklation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane dasoline components.

Kerosene. A petroleum distillate that boils at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. Included are the two classifications recognized by ASTM D3699: No. 1-K and No. 2-K, and all grades of keresene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene is used in space heaters, cook stoves, and water heaters and is sultable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, and a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specification MIL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; it is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and nonassociated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefied Petroleum Gases (LPG). Ethane, Ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/ or refrigeration they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane. Excludes still gas used for chemical or rubber manufacture which is reported as a petrochemical feedstock and also excludes liquefied petroleum gases intended for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstock or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. "Lubricants" includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include:

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from a residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-Ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, include a boiling range of 122-158 degrees F. at the 10-percent point to 365-374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. "Motor gasoline" includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating. Includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Blend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Gasohol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F, meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specification of the Gas Processors Association and the American Society for Testing and Materials and are classified as follows: Ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e. products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C5H12), obtained by fractionation of natural gasoline or isomerization of normal pentane.

Normal Butane. See Butane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices and future concession rights. Current members are Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation, and not under active repairs but capable of being placed in operation within 30 days; or not in operation but under active repairs that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Barrels Per Calendar Day. The maximum number of barrels of input that can be processed in an atmos-

pheric distillation facility during a twenty-four hour period after making allowances for the following limitations:

The capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation.

The types and grades of inputs to be processed.

The types and grades of products expected to be manufactured.

The environmental constraints associated with refinery operations.

The reduction of capacity for scheduled downtime such as routine inspection, mechanical problems, maintenance, repairs and turnaround.

The reduction of capacity for unscheduled downtime such as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product slate conditions.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline and plant condensate.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber and a variety of plastics. The categories reported are "Naphtha-Less than 400 degrees F. end-point" and "Other oils over 400 degrees F. end point."

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is intended for use as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is intended for use as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is 5 barrels of 42 U.S. gallons per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This "green" coke may be sold as is or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst thus, deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400 F. end-point, other oilsover 400 F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Refinery. An installation that manufacturers finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oll or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is Included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

Propane. A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees F. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D1835.

Propylene. An olefinic hydrocarbon, (C3H6), recovered from refinery processes or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operations which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Imports of residual fuel oil include "Imported Crude Oil Burned as Fuel."

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a boiling range of 90 degrees to 220 degrees F. "Special naphthas" includes all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadlene, etc. are considered petrochemical products; therefore, only their feedstock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid-being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is lightcolored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42-U.S. gallon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D1321)-60 maximum. Viscosity at 210 degrees F. in Saybolt Universal Seconds (SUS). (D88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oll content (D721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D721)-0.5 percent maximum. Other +20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and adjacent islands.

Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts:

PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not Included in the East Coast District.

PAD District II

Appalachian #2: The following counties of the State of Ohlo: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not included in the Appalachian District.

Minnesota—Wisconsin—North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patriclo, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louislana Guif Coast: The following Parishes of the State of Louislana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippl: Pearl River, Stone, George, Hancock, Harrlson, and Jackson. Also the following countles of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

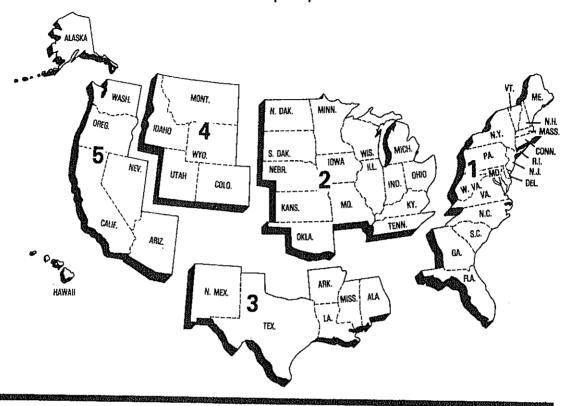
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

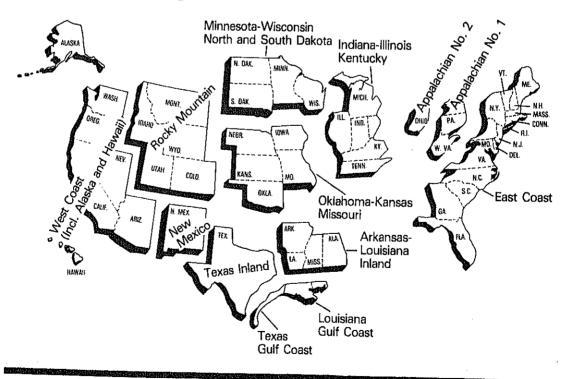
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

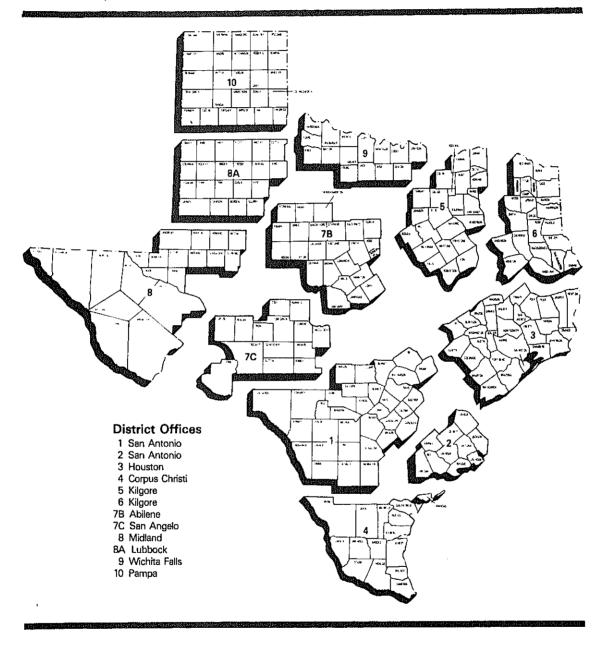
Petroleum Administration for Defense (PAD) Districts



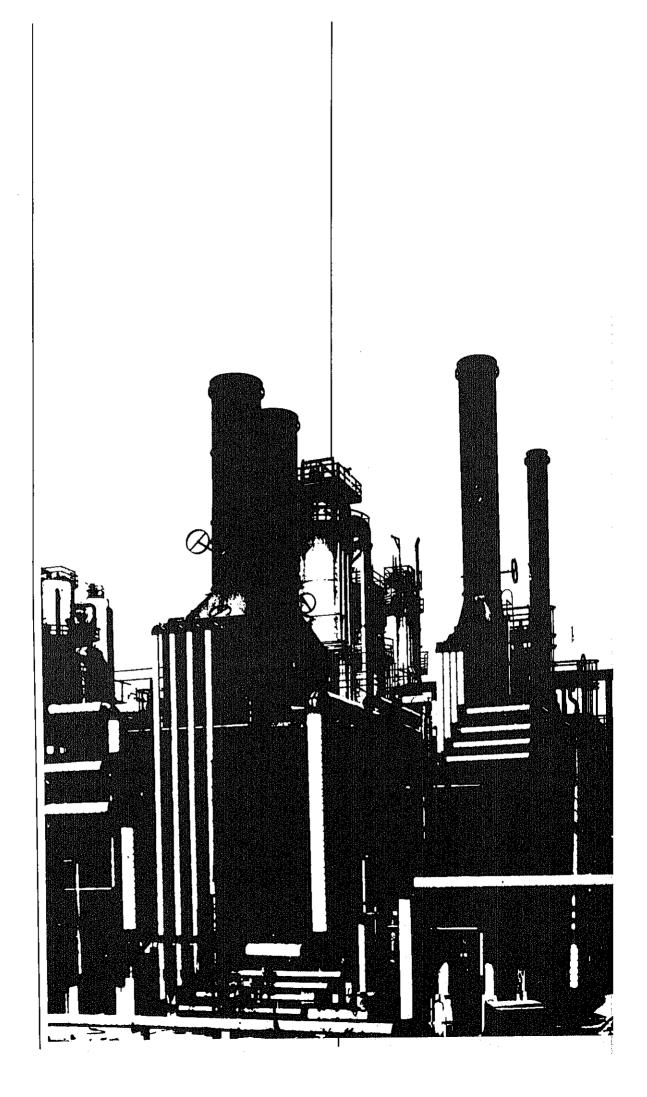
Bureau of Mines Refining Districts



District Map Oil and Gas Division Railroad Commission of Texas







Explanatory Notes

Note 1: Data Collection Methodology

Background

Beginning in January 1983, the Energy Information Administration (EIA) unified its petroleum supply data collection activities into the Petroleum Supply Reporting System (PSRS). The PSRS represents a family of data collection survey forms, data processing systems and publication systems that have been consolidated to achieve comparability and consistency throughout. The primary focus of the consolidation has been to revise the weekly and monthly survey reporting forms to assure consistency in form layout, preparation instructions, and definitions. As a result, a new set of survey forms were implemented in January 1983. The following are the new form numbers and their corresponding predecessor forms:

New Form Number	Name	Old Form Number
EIA-800	Weekly Refinery Report	EIA-161
EIA-801	Weekly Bulk Termi- nal Report	EIA-162
EIA-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude Oil Stocks Report	EIA-164
EIA-804	Weekly Imports Re-	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	
EIA-810	Monthly Refinery Report	EIA-87
EIA-811	Monthly Bulk Termi- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
EIA-813	Monthly Crude Oil Re-	EIA-90
ERA-60	Monthly Imports Re-	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-816	Monthly Natural Gas Liquids Report	EIA-64
EIA817	Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroleum Supply Reporting System (WPSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly basis. Data from the WPSRS are published in the Weekly Petroleum Status Report (WPSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly (PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, refinery, bulk terminal and pipeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the *PSM*. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the *PSM*. A description of the Census data follows in Note 1.3.

Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

Background

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the Iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico. Four companies report.

Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (M_t) is divided by the amount reported by the sample of companies for the most recent month (M_s) . The result is multiplied by the amount reported by the sample of companies for the current week (W_s) . The answer, W_t , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_t = \frac{M_t}{M_s}(W_s)$$

This procedure is used to estimate total weekly inputs to refinerles and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a companyby-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

Background

The MPSRS was implemented in January 1983 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oil stocks and movements. The collection systems

were further expanded to include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

Respondent Frame

EIA-810: All petroleum refineries and plants that produce finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawaiian Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EIA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-815: All licensed importers and importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

Import data from the ERA-60 and EIA-815 are Integrated into the import statistics reported in the *PSM*.

EIA-816: All operators of facilities designed to extract liquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

EIA-817: All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All licensed importers and importers of record Importing crude oil and petroleum products into the United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil Imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

Collection Methods

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be postmarked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to nonrespondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

Imputing Missing Data

Imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fail to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1983, the ERA-60 survey had a response rate of 99.9 percent by the filing deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is cross-checked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

Background

Each month the EIA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the import data collected by the EIA. Export statistics and import data from the Census tapes on liquefied petroleum gases and bonded ship bunkers are published in the PSM.

Import Statistics (IM-145)

Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise in-transit through the United States, when documented with Customs as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States. (U.S. possessions include Puerto Rico, the Virgin Islands, Guam, and American Samoa.)
- 3. U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as *Imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawais from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics (EM-522 and EM-594)

Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- 2. Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or addition:

Field Production is the sum of crude oil production (including lease condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-816, Monthly Natural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.2.

Refinery Production of petroleum products is reported monthly on survey Form EIA-810, Monthly Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, Report of Oil imports into the United States and Puerto Rico, and Form EIA-815, Shipments of Refined Products (Including Untinished Oils) from Puerto Rico to the United States. In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501, 7505, and 7506. The most prominent difference between the EIA and Census systems appears in imports of liquefied petroleum

gases (LPG), where the Census data show a much higher level of imports than EIA data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and LPGs are not licensed products. Therefore, respondents that import only LPGs have not been identified, and do not report these imports to the Department of Energy, Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphtha- and kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting sys-

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the same month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and a reduction in the amount of petroleum supplies distributed for domestic consumption. For a description of survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition.

Crude oil supply is the sum of field production, Imports and stock withdrawals or additions. Crude oil disposition is the sum of exports, refinery input, losses and product supplied. Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used.

Note 3: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of ten State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are Indiana, Kentucky, Missouri, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dallas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication.

The individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses is the sum of crude oil losses at refinerles. Crude oil losses at refinerles are reported on Form EIA-810, *Refinery Report*.

Refinery Inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline blending components equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM-522 and EM-594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawaiian Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-810, by refineries located in these places.

Product Supplied for each product is calculated by summing field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, minus crude oil losses (plus net receipts when calculated on a PAD District basis), minus re-

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) In the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on Form EIA-813, Monthly Crude Oil Report. Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oil Report. Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude OII Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816, Monthly Natural Gas Liquids Report, Form EIA-810, Monthly Refinery Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oil Stocks Report. For survey descriptions and other details, see Explanatory Notes 1.1 - 1.3.

Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, liquefied petroleum gases, and other products provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The

average range represents the historical pattern; it is not a forecast

These curves are updated semiannually (On April 1 and October 1), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors are very small relative to crude oil stock levels. Therefore, the seasonal factors for distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975, 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973, 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for crude oil, distillate fuel oil. residual fuel oil, liquefied petroleum gases and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817, Monthly Tanker and Barge Movement Report, and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For survey descriptions and other detail, see Explanatory Note 1.2.

Note 8: Preliminary Monthly Statistics

Weekly data (Forms EIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineries and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

• Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.

- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousand barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- Crude Losses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousand barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousand barrels in Table 2.
- Total Imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending stocks are aggregated from ending stocks in thousand barrels in Table 2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

Ending Stocks appear in thousand barrels in Table 2.

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousand barrels in Table
 2.

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.

- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousand barrels in Table 2.

Note 9.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for Alaska, Lower 48 States, and Total U.S. are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR Imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL Imports equals the sum of the im-

ports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.

- Line (16): NGPL Stock Withdrawal (+) or Addition (-) is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (23): *Total Other Liquids* equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals imports of LPG plus imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products in Table 2.
- Line (27): Net imports of Refined Products equals the difference between lines (25) and (26).
- Line (28): Total New Supply of Products equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation

gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.

- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and Isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Table 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of Crude Oil and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of Refined Products, equals the sum of LPG and finished petroleum product stocks in Table 2.

Note 10: New Stock Basis

In January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported and stock withdrawal calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:

- Crude Oil: 1982 645 (Total) and 351 (Other Primary).
- Crude Oll and Petroleum Products: 1974 1,121; 1980 1,420; and 1982 1,462.
- Motor Gasoline: 1974 225; 1980 263; 1982 244 (Total) and 203 (Finished).

- Distillate Fuel Oil: 1974 224; 1980 205; and 1982 186.
- Residual Fuel Oil: 1974 75; 1980 91; and 1982 68.
- Liquefied Petroleum Gases: 1974 113; 1980 128; and 1982 - 103.
- Other Petroleum Products: 1974 220; 1980 249; and 1982 - 259.
- Stock withdrawal calculations beginning in 1975, 1981, 1983 were made using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in "Other Petroleum Products Supply and Disposition" table in the Summary Statistics, is now reported on a component basis (ethane, propane, normal butane, isobutane and pentanes plus). Most of these stocks will now appear in the "Liquefied Petroleum Gases Supply and Disposition" table of the Summary Statistics. This change will affect stocks reported and stock withdrawals in each table. Under the new basis, end-of-year 1983 stocks, in million barrels, would have been:

• Liquefied Petroleum Gases: 1983 - 108

• Other Petroleum Products: 1983 - 248

Note 11: Stocks of Alaskan Crude Oil

Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Other Primary).

Note 12: Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concepts, reporting procedures and aggregation methods that are consistent with those developed by the U.S. Bureau of Mines. Research conducted by the Energy Information Administration in 1979 and 1980 indicated that changes had occurred in the petroleum industry that were not being adequately reflected in EIA's reporting systems.

EIA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry operations more accurately. Unfortunately, empirical information is not available to precisely measure the data shortcomings throughout 1980. However, estimates of the magnitudes of differences in the major data series are described below to form a basis for comparing 1979, 1980, and 1981 data.

Motor Gasoline

Prior to 1979, the EIA product-supplied series for motor gasoline was consistently about 2 percent lower than the Federal Highway Administration (FHWA) gasolinesales data series, which is derived from State tax recelpts. This difference increased to about 4 percent in 1979 and 5 percent in 1980. There are two primary causes for this growing difference. First, refinery operations, particularly the flows of unfinished oils and the redesignation of some finished products, were not be-Ing accurately described on the EIA survey forms. Second, a large amount of gasoline was being produced away from refineries at "downstream blending stations" to take advantage of provisions in regulations governing the amount of lead that could be added. These blending stations were not reporting gasoline production to the EIA until the data system was changed in January 1981.

Quantitative estimates of the magnitude of the difference—in EIA's gasoline product supplied data in 1979 and 1980 have been made by the EIA and the American Petroleum Institute (API). The following table provides 1979 and 1980 data as published in the Petroleum Statement Annual, as well as EIA and API estimates of "recast" motor gasoline product supplied. EIA recast estimates were based upon preliminary monthly information in the Monthly Petroleum Statement. The ranges displayed in the EIA column reflect uncertainty in the estimates. Also shown are the FHWA motor gasoline sales statistics for those years. EIA has recently published a study of the quality of these FHWA data.

Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Taxation Data used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C. December, 1981).

Finished Motor Gasoline Product Supplied on Old and New Basis (Thousand Barrels per Day)

		19	79			19	980	
	EIA · Reported	API Recast	EIA Recast	FHWA1	EIA Reported	API Recast	EIA Recast	FHWA1
Jan	6,830	7,230	7,084- 7,246	6,984	6,323	6,789	6,630- 6,791	6,672
Feb	7,254	7,496	7,389- 7,568	7,538	6,596	6,983	6,831- 7,003	6,830
Mar	7,229	7,414	7,301- 7,463	7,316	6,406	6,753	6,607- 6,768	6,713
Apr	7,055	7,300	7,187- 7,353	7,375	6,800	7,014	6,886- 7,052	6,981
May	7,213	7,429	7,313- 7,475	7,428	6,72 9	6,954	6,823- 6,984	7,044
Jun	7,191	7,483	7,350- 7,516	7,441	6,657	6,966	6,824- 6,991	7,049
Jul	6,902	7,241	7,105- 7,266	7,299	6,743	6,973	6,960	7,132
Aug	7,330	7,546	7,426- 7,588	7,619	6,648	6,841	6,828	7,090
Sep	6,881	7,122	7,016- 7,262	7,232	6,510	6,692	6,962	6,685
Nov	6,791	7,068	6,956- 7,122	7,142	6,234	6,507	6,516	6,951
Dec	6,730	7,106	6,966- 7,127	7,064	6,632	6,948	6,936	6,993
Average	7,034	7,302	7,183- 7,347	7,309	6,579	6,882	6,806- 6,889	6,925

¹FHWA gasoline statistics published in their 1979 Table MF-33G, 08-06-80, contain aviation gasoline as well as motor gasoline. Only motor gasoline data are included in published 1980 data. Consequently, the 1979 data shown above were reduced by subtracting aviation gasoline product supplied quantities as published by EIA in the 1979 *Petroleum Statement Annual*. The 1980 FHWA data published in their 1980 Table MF-33GA, August 1981, did not require this adjustment.

Distillate and Residual Fuel Oil

Distillate and residual fuel oil refinery production statistics through 1980 were adjusted to account for an imbalance between unfinished oil supply and disposition. The reported quantities of refinery inputs of unfinished oils typically exceed the available supply of unfinished oils. It has been assumed that this occurs when distillate and residual fuel oil produced by a refinery is shipped to another refinery, where it is treated as unfinished oil. This oil is then reprocessed rather than used or sold as distillate or residual fuel oil.

For many years (including 1980), the difference between unfinished oil disposition and supply was subtracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and one-third to residual fuel oil.

Beginning in January 1981 this adjustment was discontinued because there was not sufficient empirical evidence to support it. The following table presents distillate and residual fuel oil refinery production in 1980 as published (adjusted) and on the same basis as 1981 statistics are now being completed (unadjusted) to permit comparison between 1980 and 1981 data series. Adjusted distillate and residual fuel oil product supplied volumes differ from the unadjusted volumes by the same amounts as the adjusted and unadjusted production volumes.

Adjusted and Unadjusted Refinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day) 1979

		Distillate	Fuel Oil			Residua	al Fuel Oil	
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied
Jan.	3,043	3,108	65	4,646	1,912	1,946	34	3,594
Feb.	2,888	2,945	57	4,869	1,792	1,822	30	3,625
Mar.	3,019	3,026	7 -	3,671	1,719	1,723	4	3,243
Apr.	2,945	2,978	32	3,048	1,639	1,656	17	2,524
May	3,066	3,093	27	3,025	1,586	1,600	14	2,517
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601
Jul.	3,305	3,344	38	2,601	1,575	1,594	20	2,471
Aug.	3,321	3,359	38	2,799	1,584	1,603	20	2,570
Sep.	3,354	3,306	48	2,599	1,627	1,602	- 25	2,584
Oct.	3,251	3,217	- 34	3,085	1,629	1,612	17	2,523
Nov.	3,239	3,200	39	3,208	1,736	1,716	- 20	2,795
Dec.	3,221	3,238	17 .	3,725	1,894	1,903	9	3,022
Average	3,152	3,169	16	3,327	1,687	1,695	8	2,834

1980

		Distillate	Fuel Oil			Residual	Fuel Oil	
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	DIff,	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied
Jan.	3,013	3,093	80	3,794	1,771	1,812	41	3,108
Feb.	2,766	2,888	122	3,834	1,773	1,836	63	3,168
Mar.	2,557	2,690	133	3,312	1,584	1,652	68	2,726
Apr.	2,460	2,554	94	2,729	1,595	1,643	48	2,492
May	2,474	2,610	136	2,538	1,509	1,579	70	2,305
Jun.	2,646	2,721	75	2,392	1,575	1,613	38	2,359
Jul.	2,689	2,783	94	2,343	1,480	1,528	48	2,339
Aug.	2,461	2,582	121	2,258	1,444	1,506	62	2,339
Sep.	2,686	2,726	40	2,627	1,495	1,516	21	2,340
Oct.	2,589	2,650	61	2,981	1,512	1,543	31	
Nov.	2,703	2,823	120	3,069	1,579	1,641	62	2,258
Dec.	2,891	3,052	161	3,776	1,660	1,743	83	2,513 2,762
Average	2,661	2,764	103	2,969	1,580	1,634	54	2,562

Total Petroleum Products

The imbalance between the supply and disposition of unfinished oils and gasoline blending components is included with other products (line 35) in the U.S. Petroleum Balance (Table 1). These imbalances are reported as negative product supplied in the Other Liquids sec-

tion, Supply and Disposition Statistics (Table 2). Since these changes only involve redistribution of the volumes of gasoline, distillate and residual fuel oil, gasoline blending components, and unfinished oils, the total volume of petroleum products supplied remains unaffected by them.

Note 13: NGL Import/Export Algorithms

Beginning in January 1984, the Energy Information Administration (EIA) implemented changes in the reporting of natural gas liquid (NGL) supply data, moving from a nine-product slate to a five-component slate that corresponds to industry record-keeping practices. Changes could not be made to the import and export systems. Therefore, in order to allocate imports and exports of mixed NGL streams to individual component parts, the EIA developed a statistical algorithm.

Imports

The imports algorithm is based on information gathered from the larger importers of NGL, who were asked to provide component analyses of the products they imported during the first six months of 1983. The percentages shown in Exhibit 1 are derived from the weighted averages of the data provided by the importers.

EXHIBIT 1. ALGORITHMS FOR ALLOCATING NGL IMPORTS

PRODUCT SLATE	Ethane	Propane	Normal butane	Isobutane	Pentanes Plus
Natural Gasoline & Isopentane (EIA-814)					100%
Plant Condensate (EIA-814)					100%
Ethane (IM-145)	100%				
Butane (IM-145)			60%	40%	
Butane-Propane Mixtures (IM-145)		40%	35%	20%	5%
Ethane-Propane Mixtures (IM-145)	80%	20%			

Exports

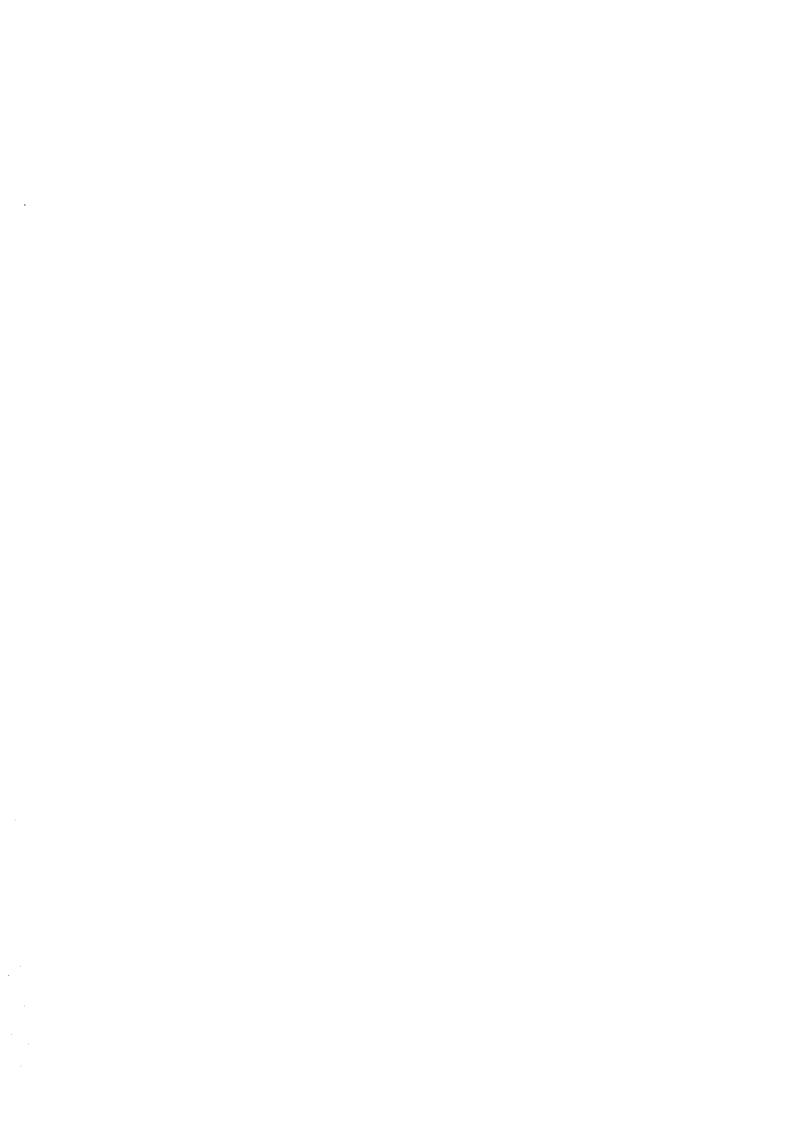
The export algorithm is based on information gathered from the larger exporters of NGL, who were asked to provide component analyses of the products they

exported during 1983. The percentages shown in Exhibit 2 are derived from the weighted averages of the data provided by the exporters. It was necessary to derive percentages by PAD of exportation, due to the wide variation of components in the mixed streams.

EXHIBIT 2. ALGORITHMS FOR ALLOCATING NGL EXPORTS

PRODUCT	P.A.D.	Ethane	El Propane	A Component Si Normal Butane	late Isobutane	Pentanes Plus
Ethane	All	100%				
Propane	All		100%			
Butane	All			100%		
Mixed Streams	I, IV, V II III	30%	40% 25% 80%	60% 15% 20%	15%	15%

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